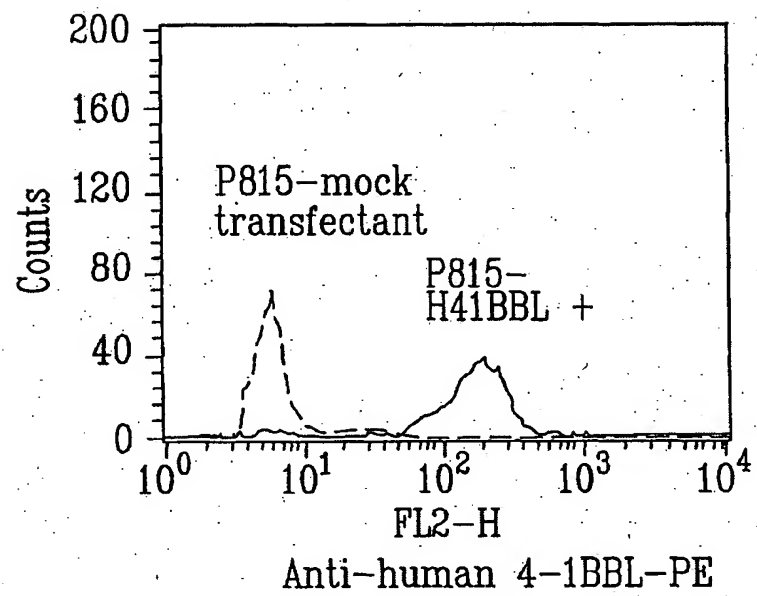
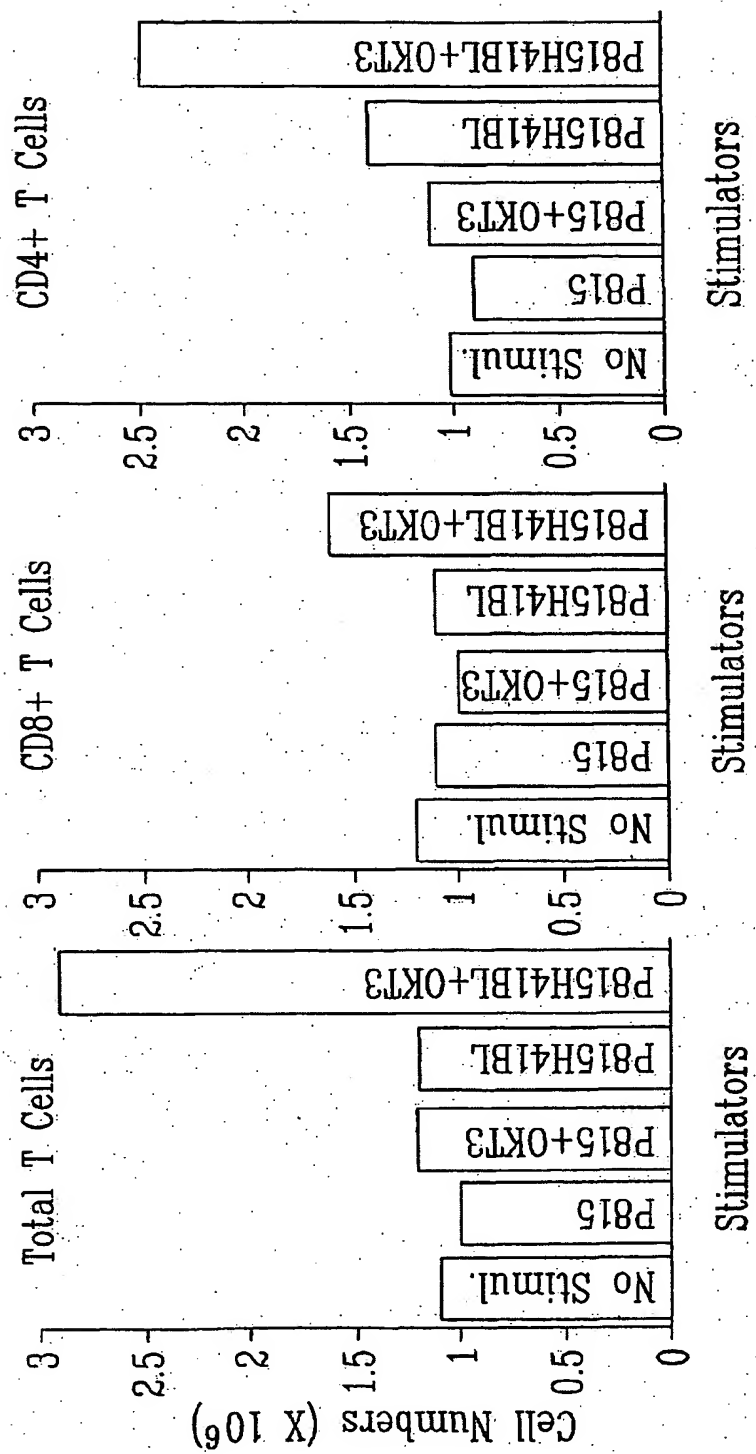


FIG. 1

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**FIG. 2**



**FIG. 3A**

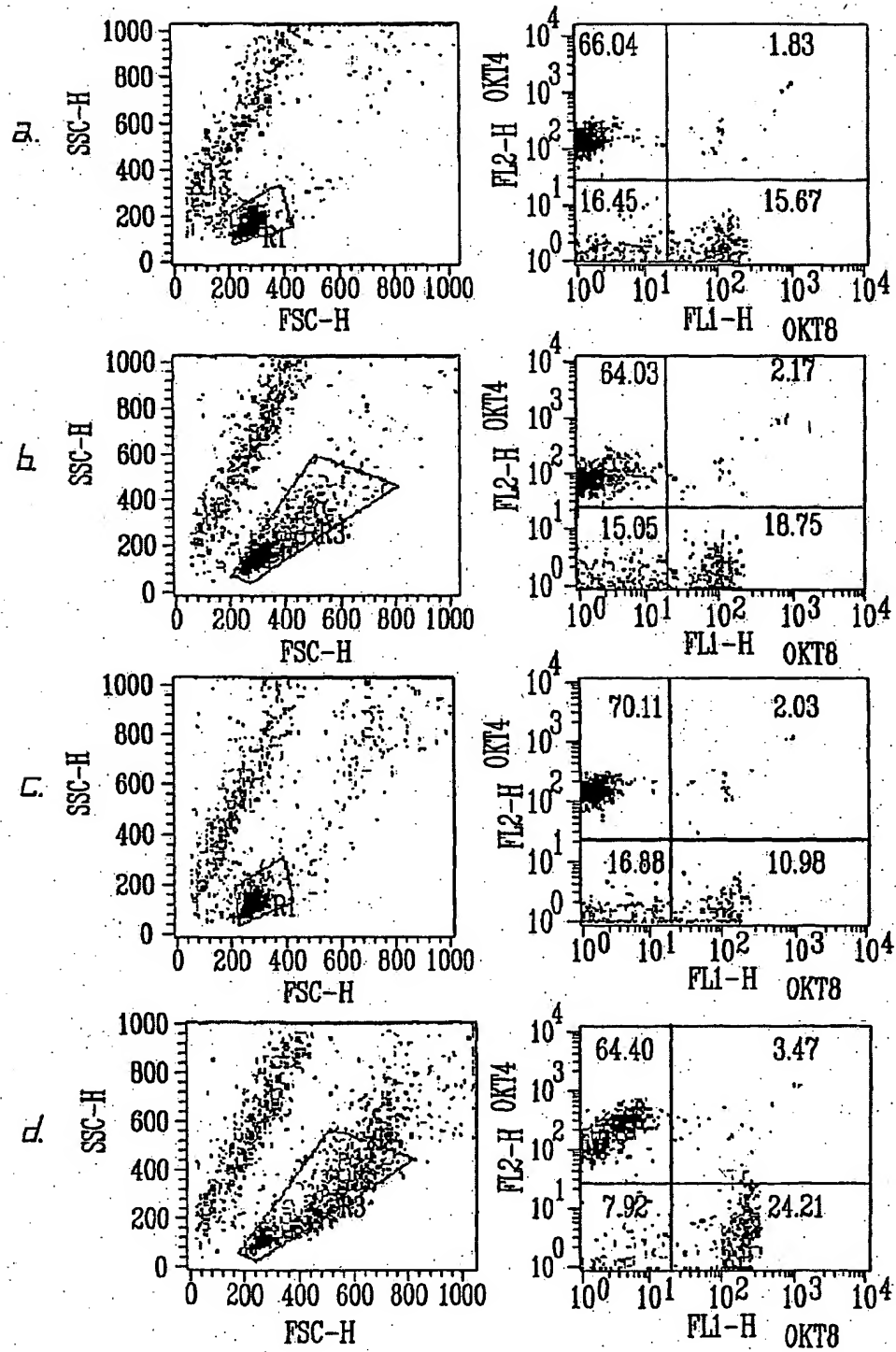


FIG. 3B

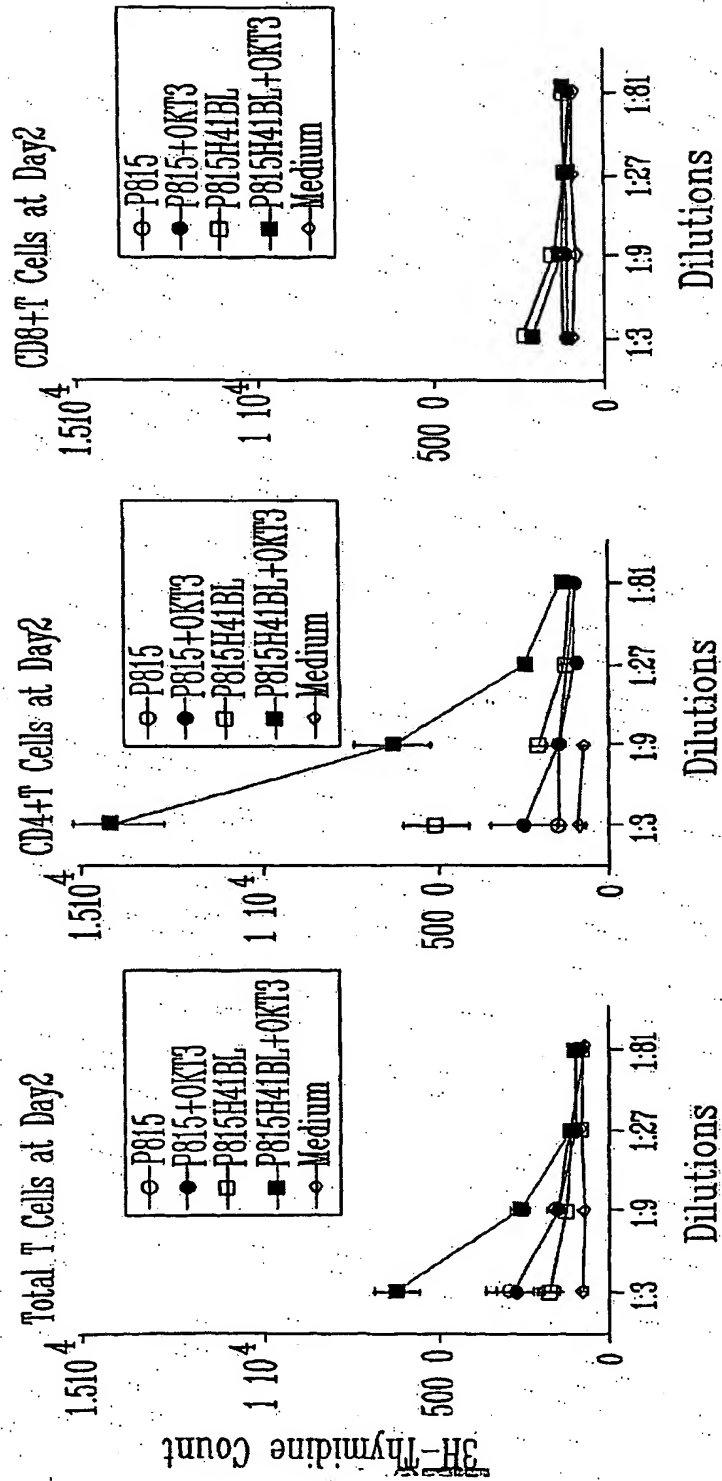


FIG. 4

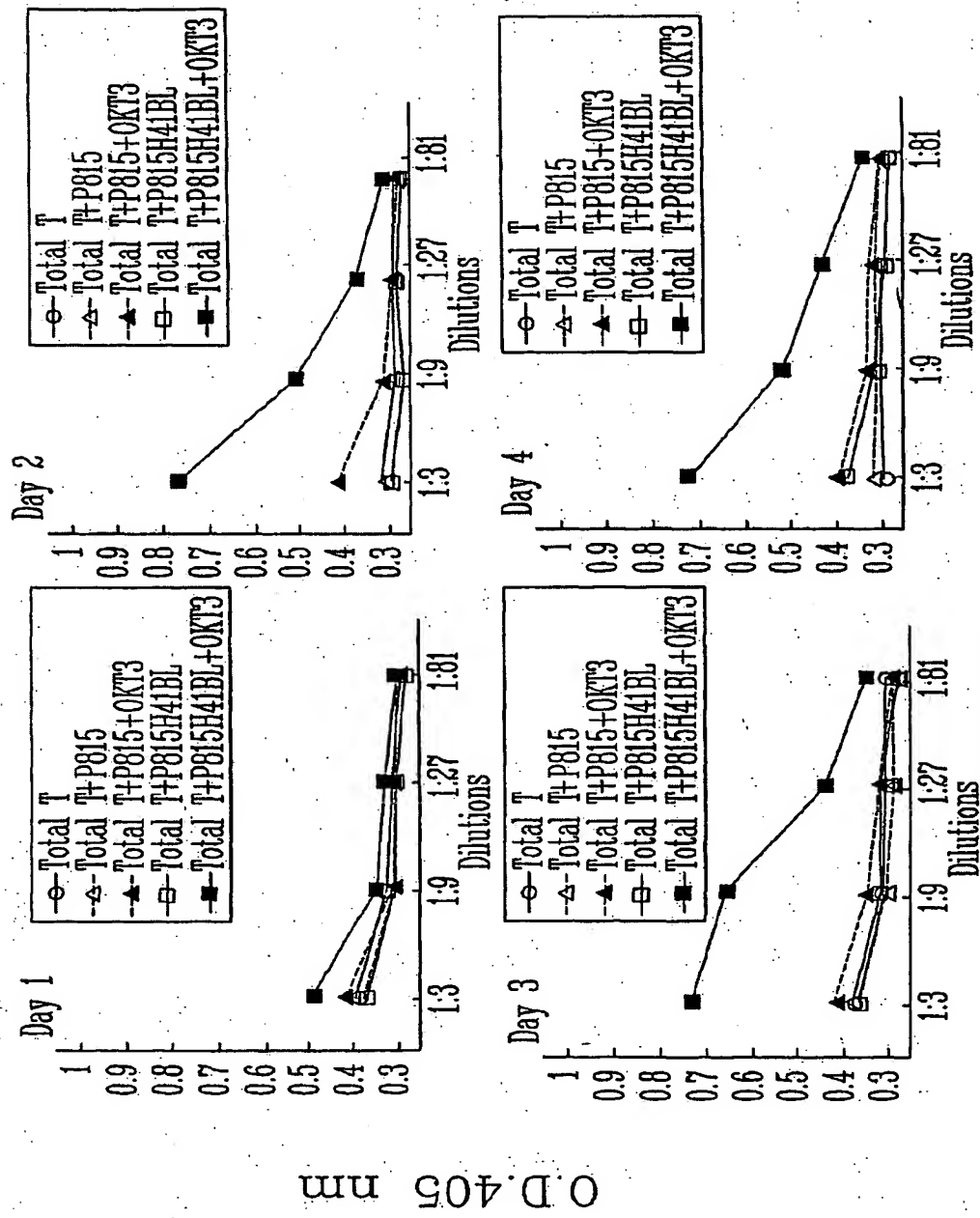


FIG. 5

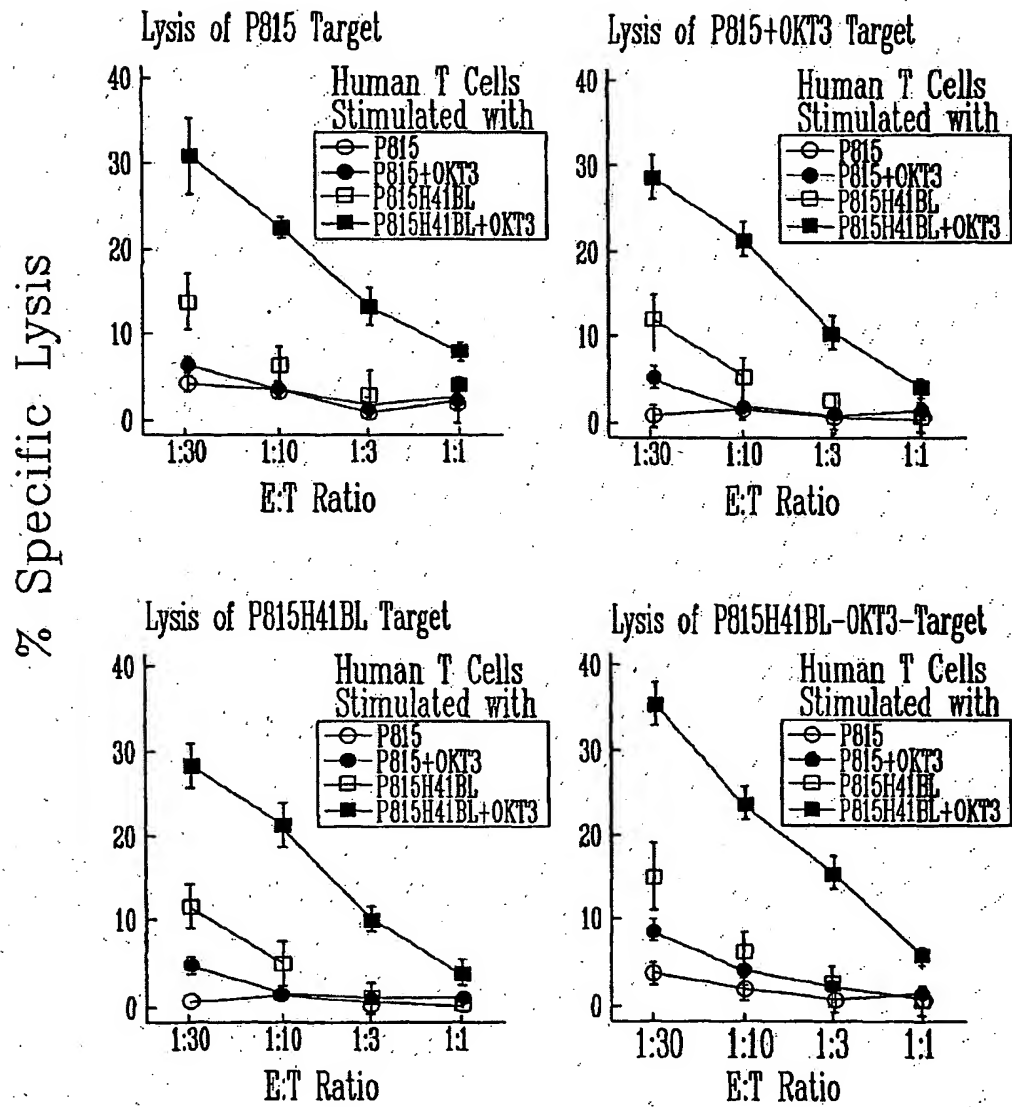


FIG. 6

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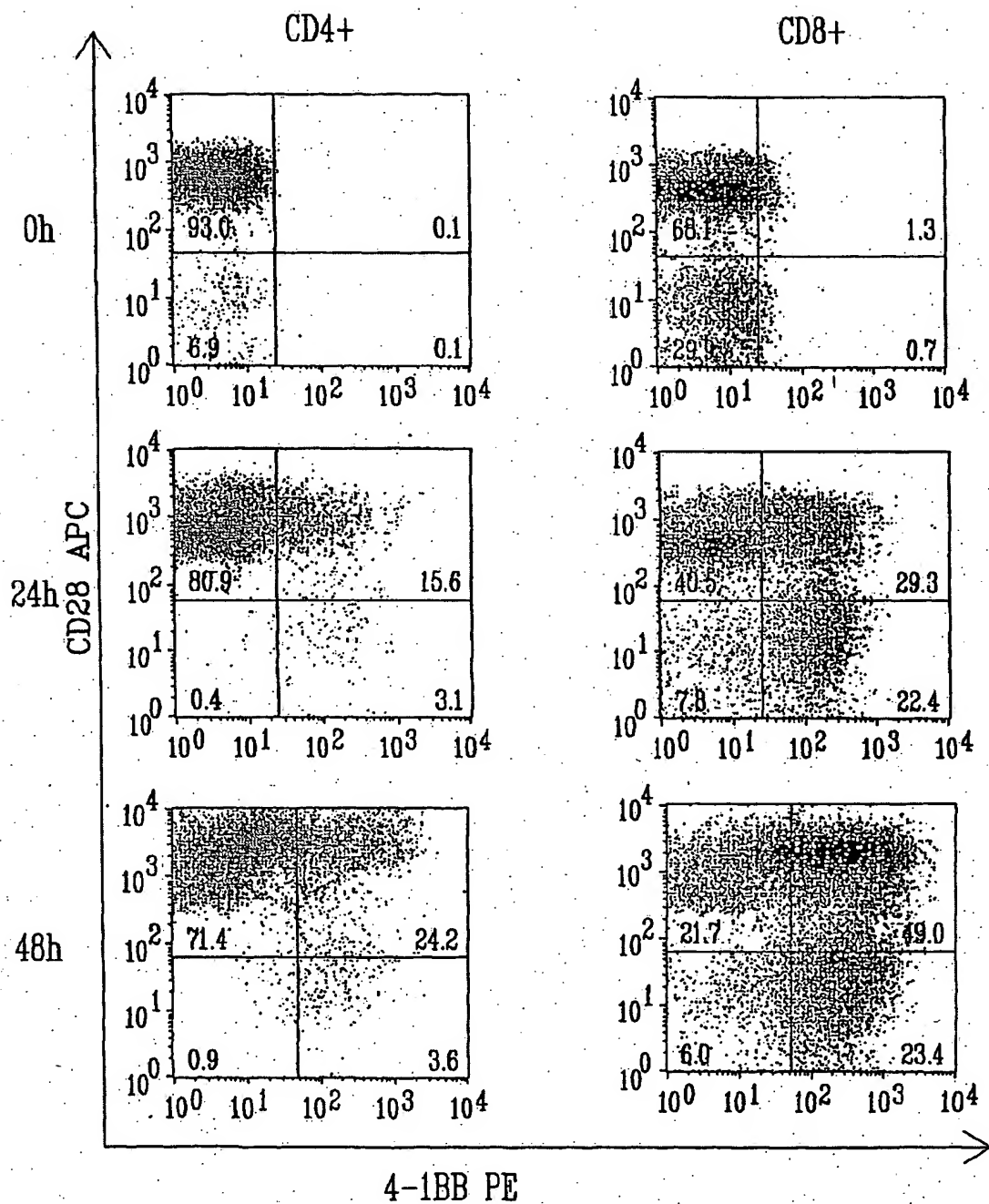
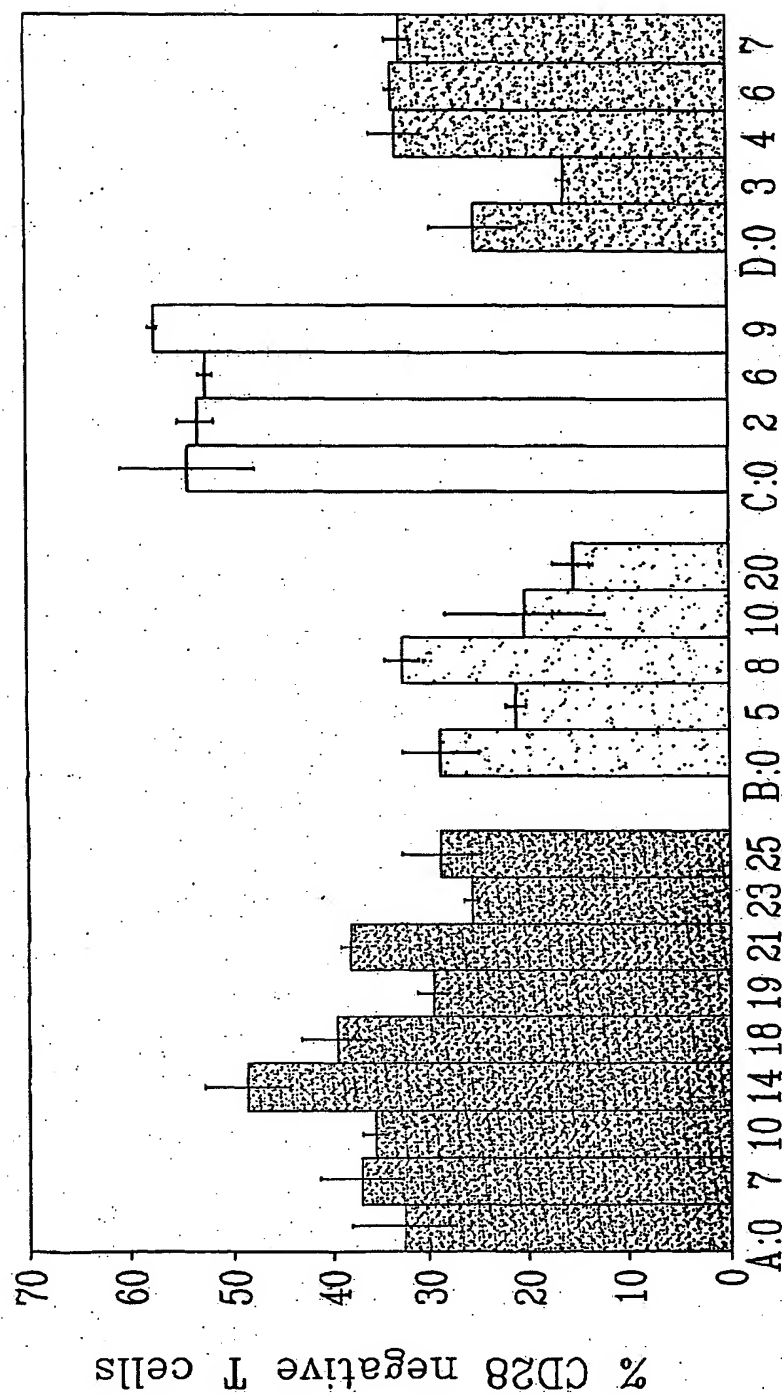


FIG. 7A



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Donor Code:Time in Months

**FIG. 7B**

+

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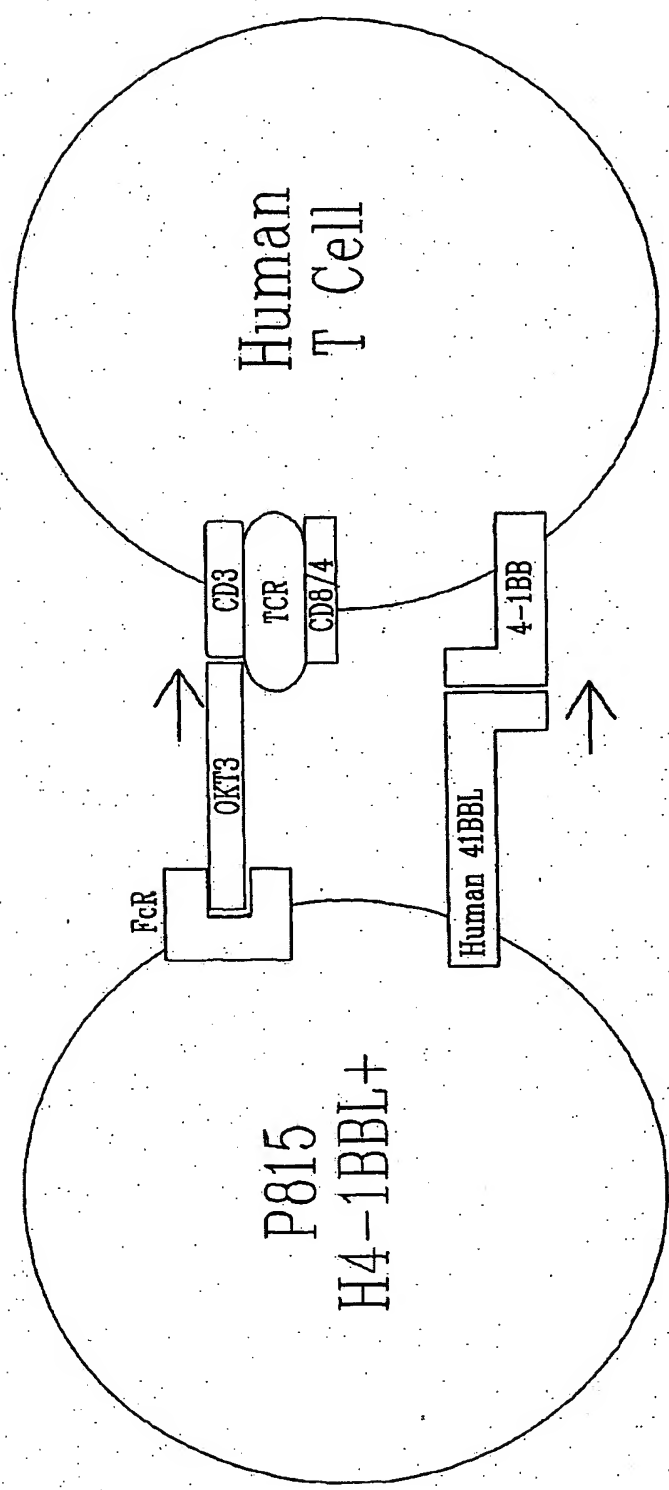


FIG. 8A

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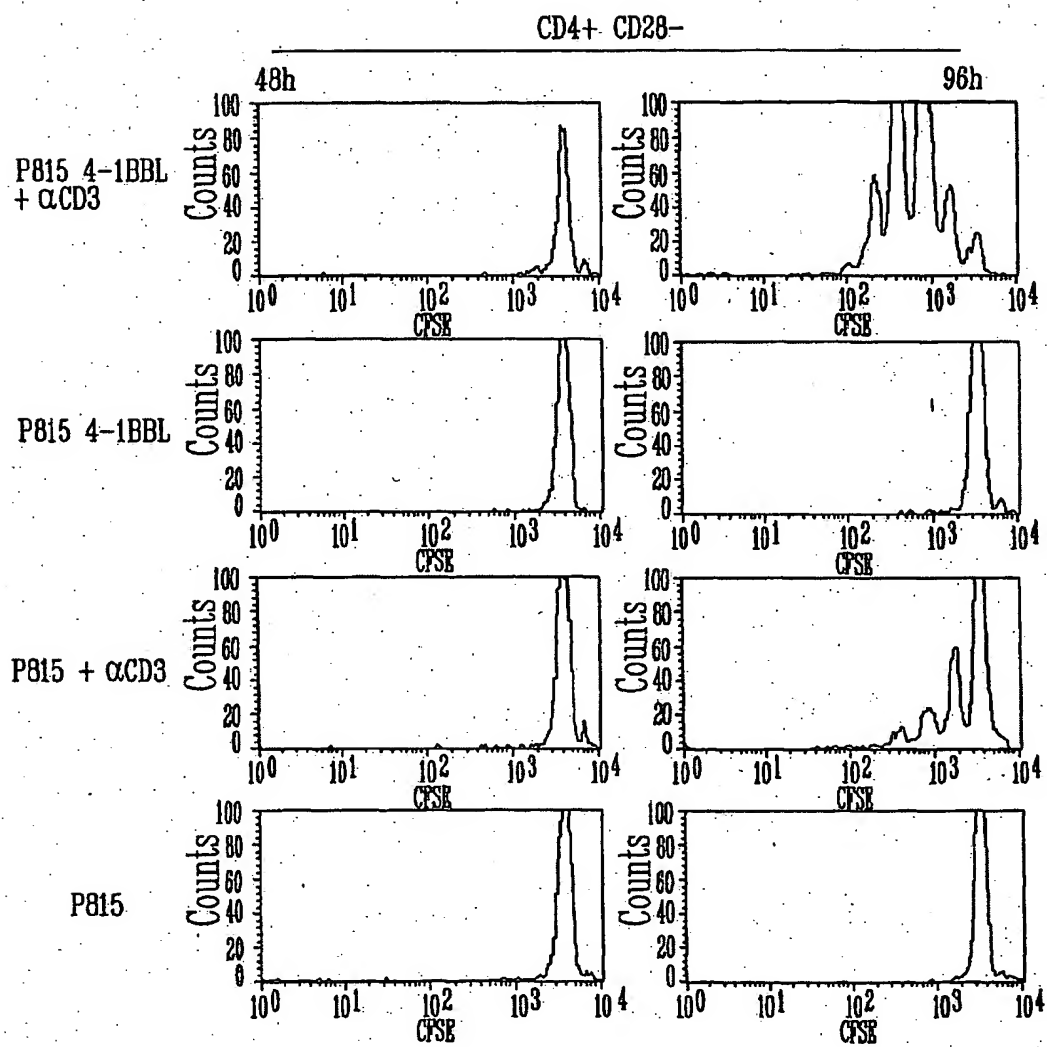


FIG. 8B

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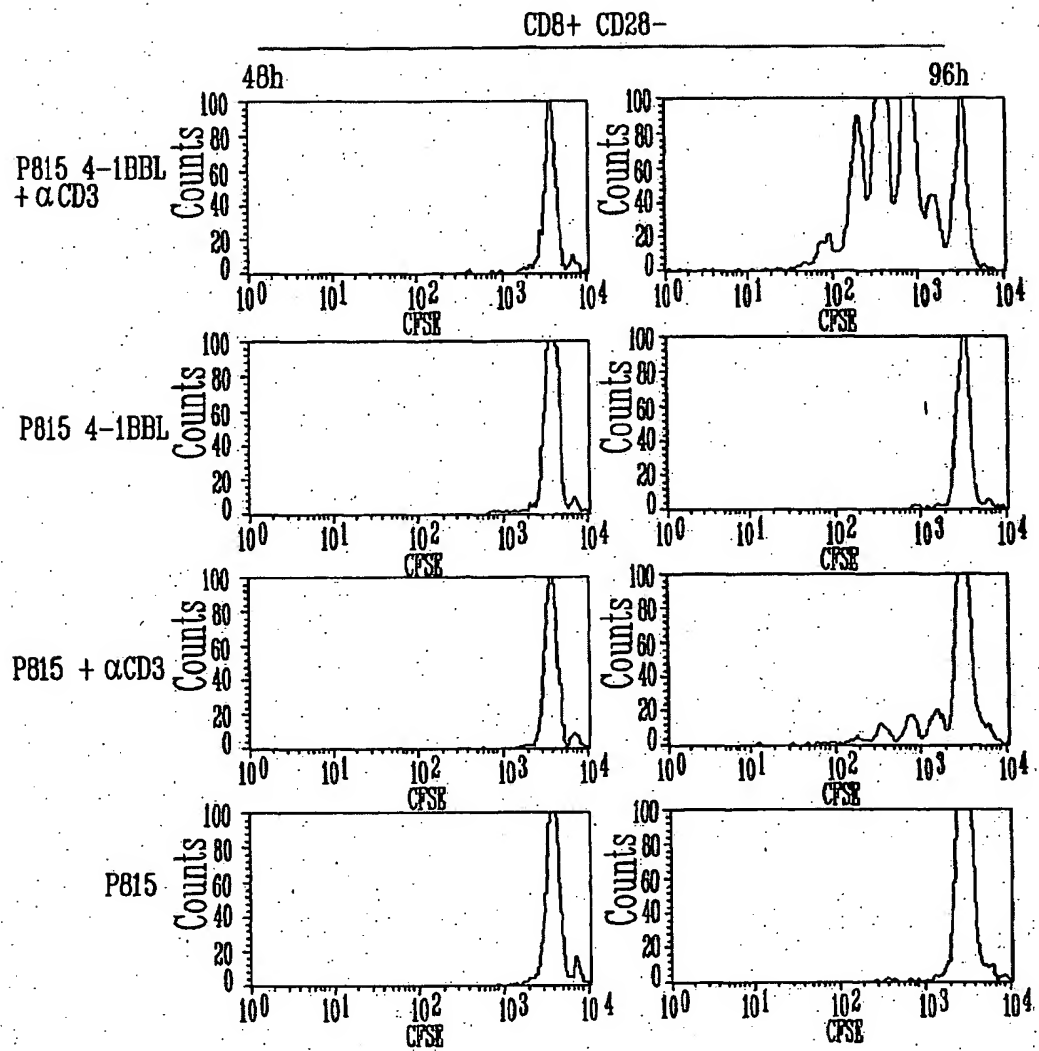


FIG. 8C

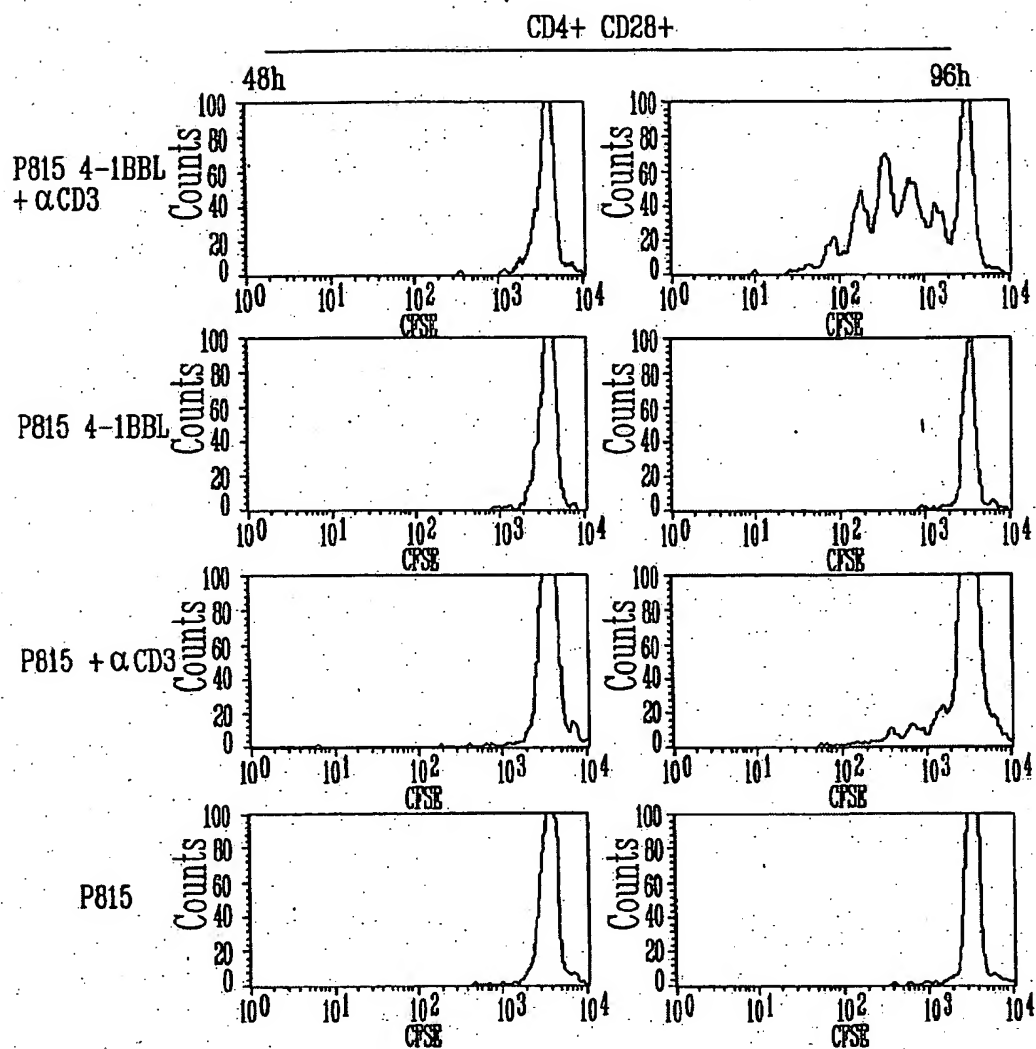


FIG. 8D

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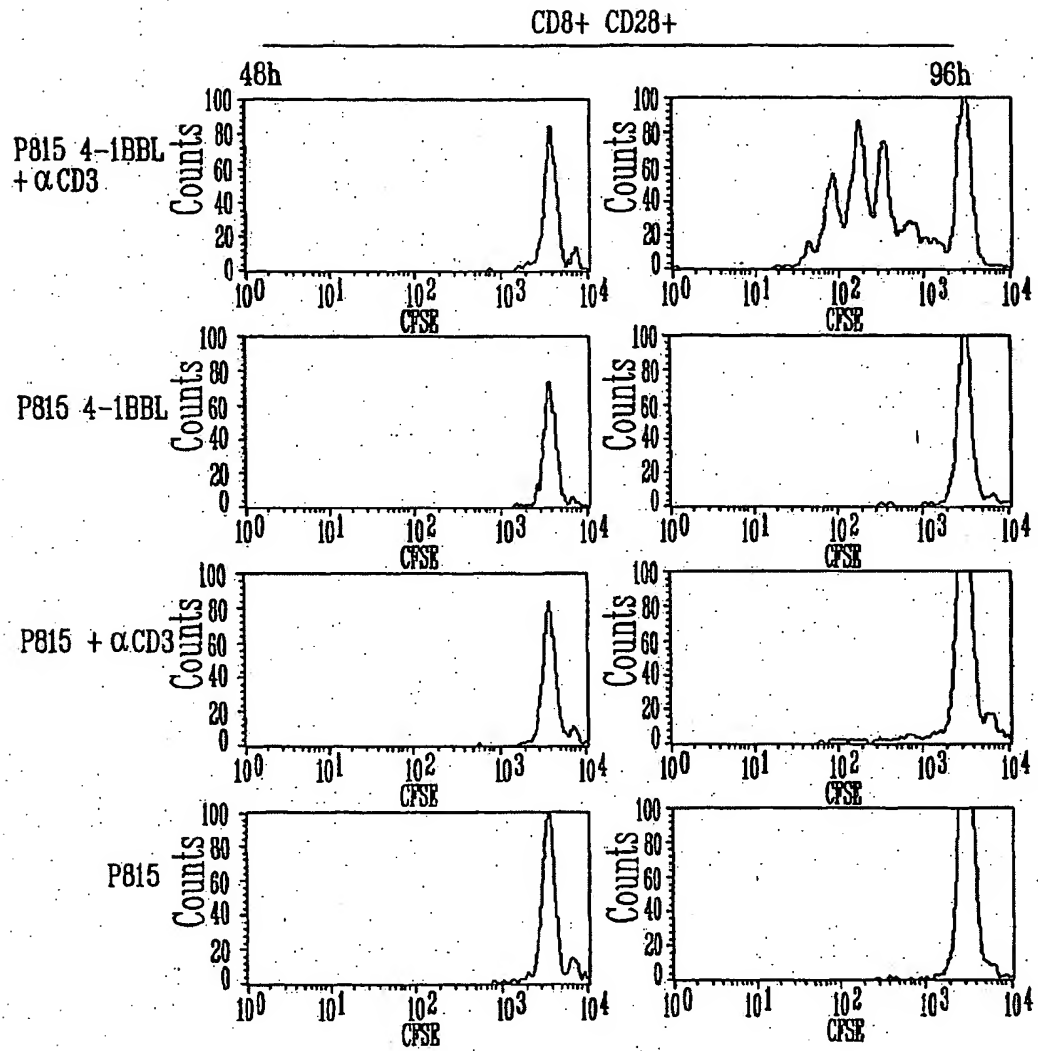


FIG. 8E

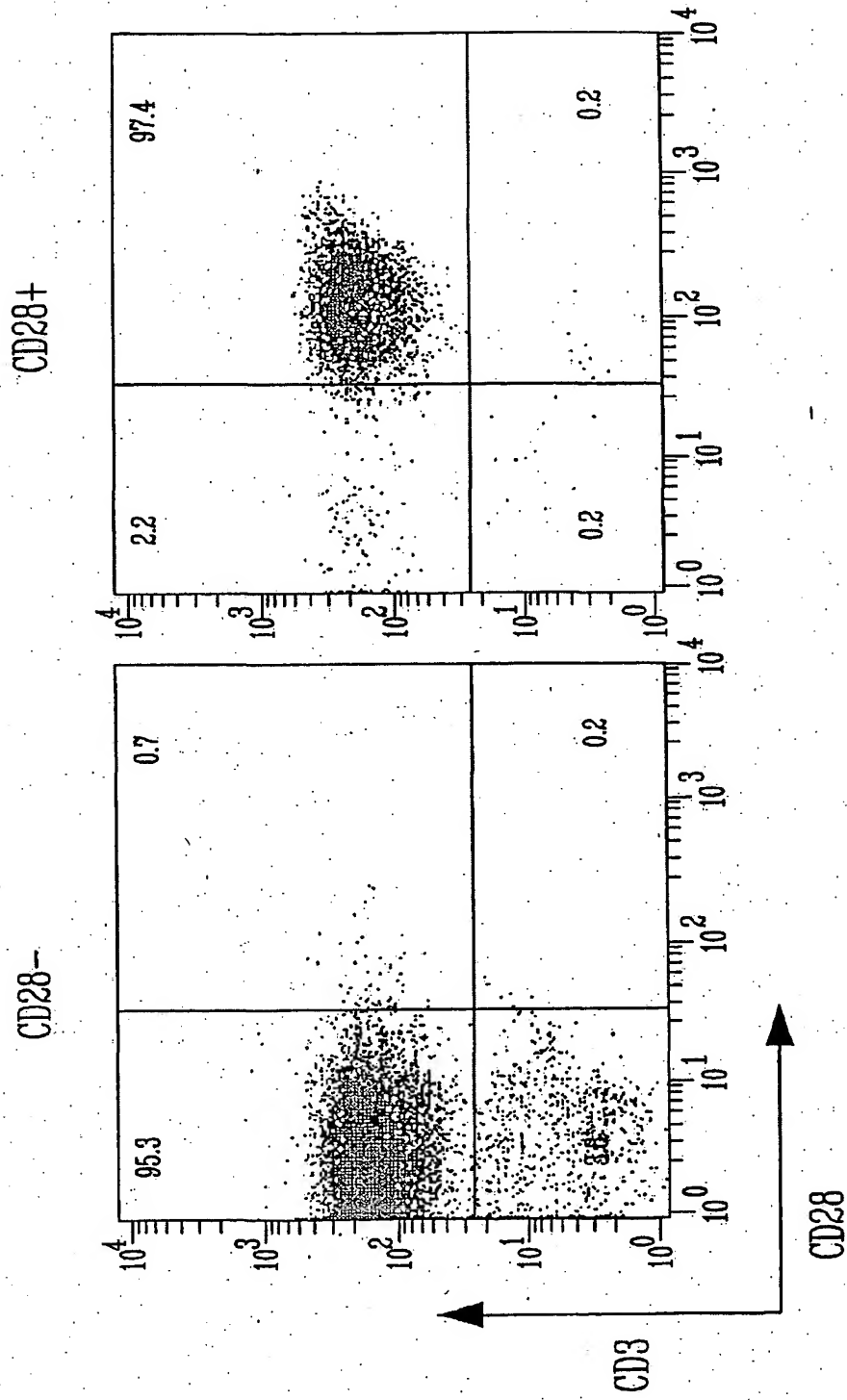


FIG. 8F

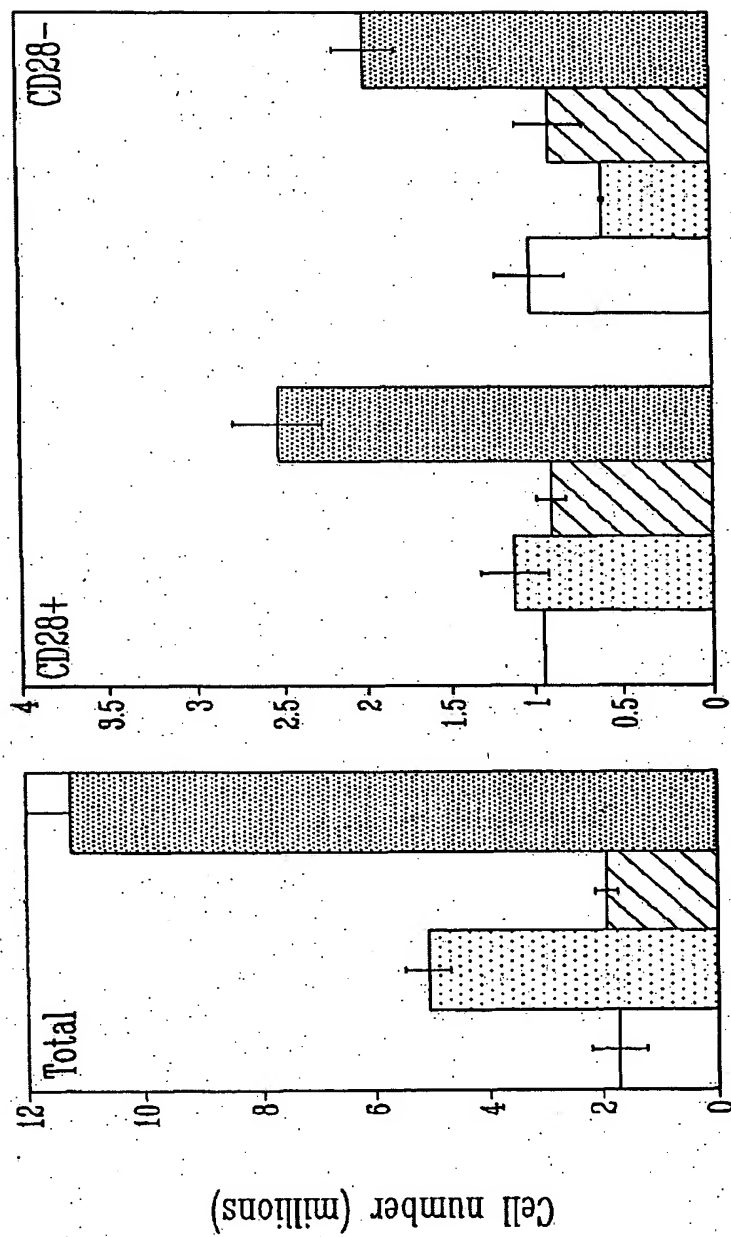


FIG. 8G



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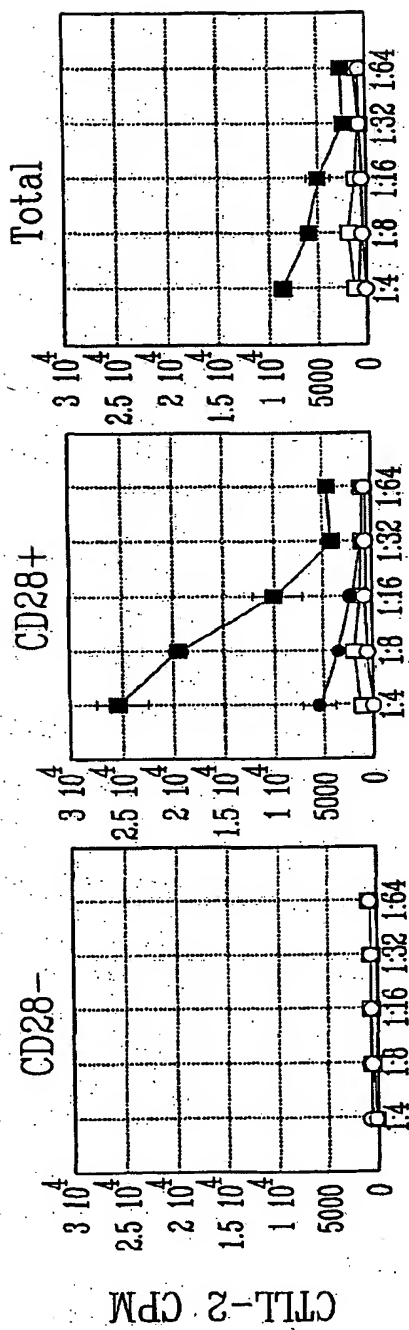
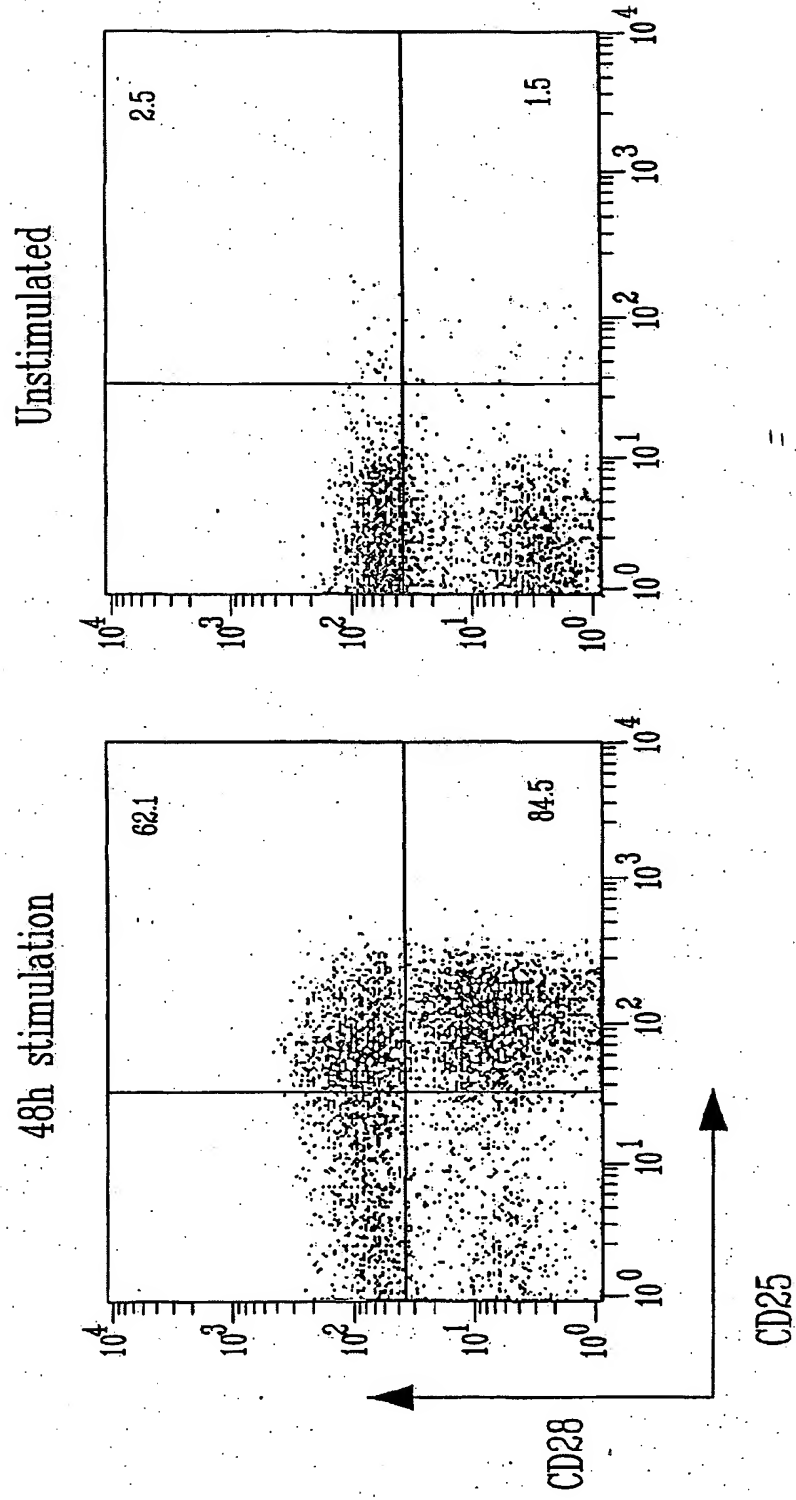


FIG. 9A

+



**FIG. 9B**

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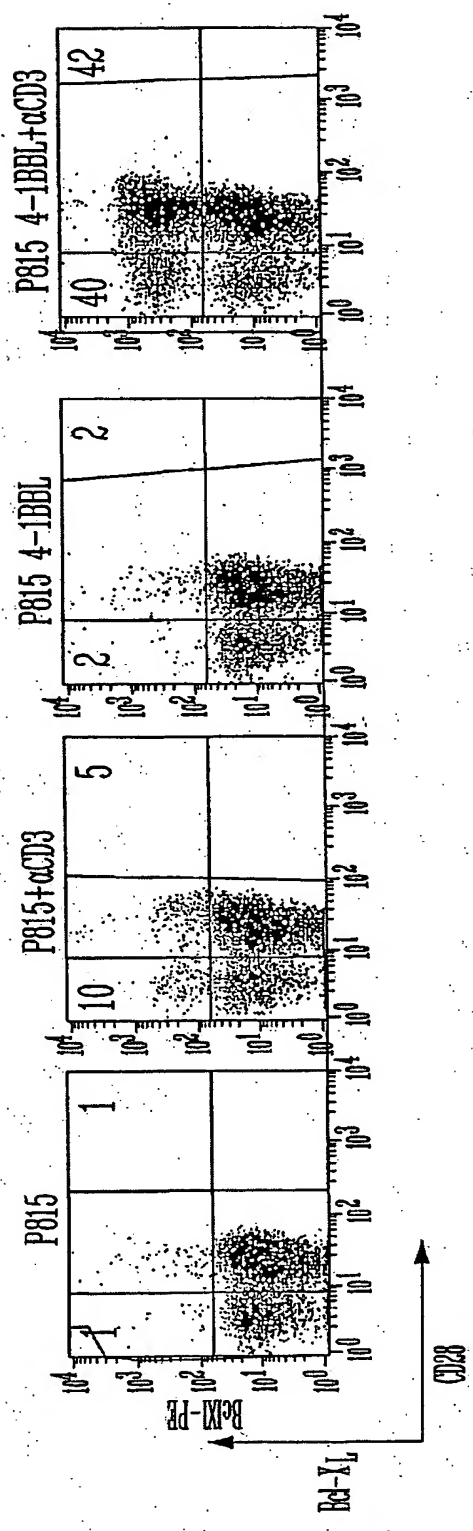


FIG. 10

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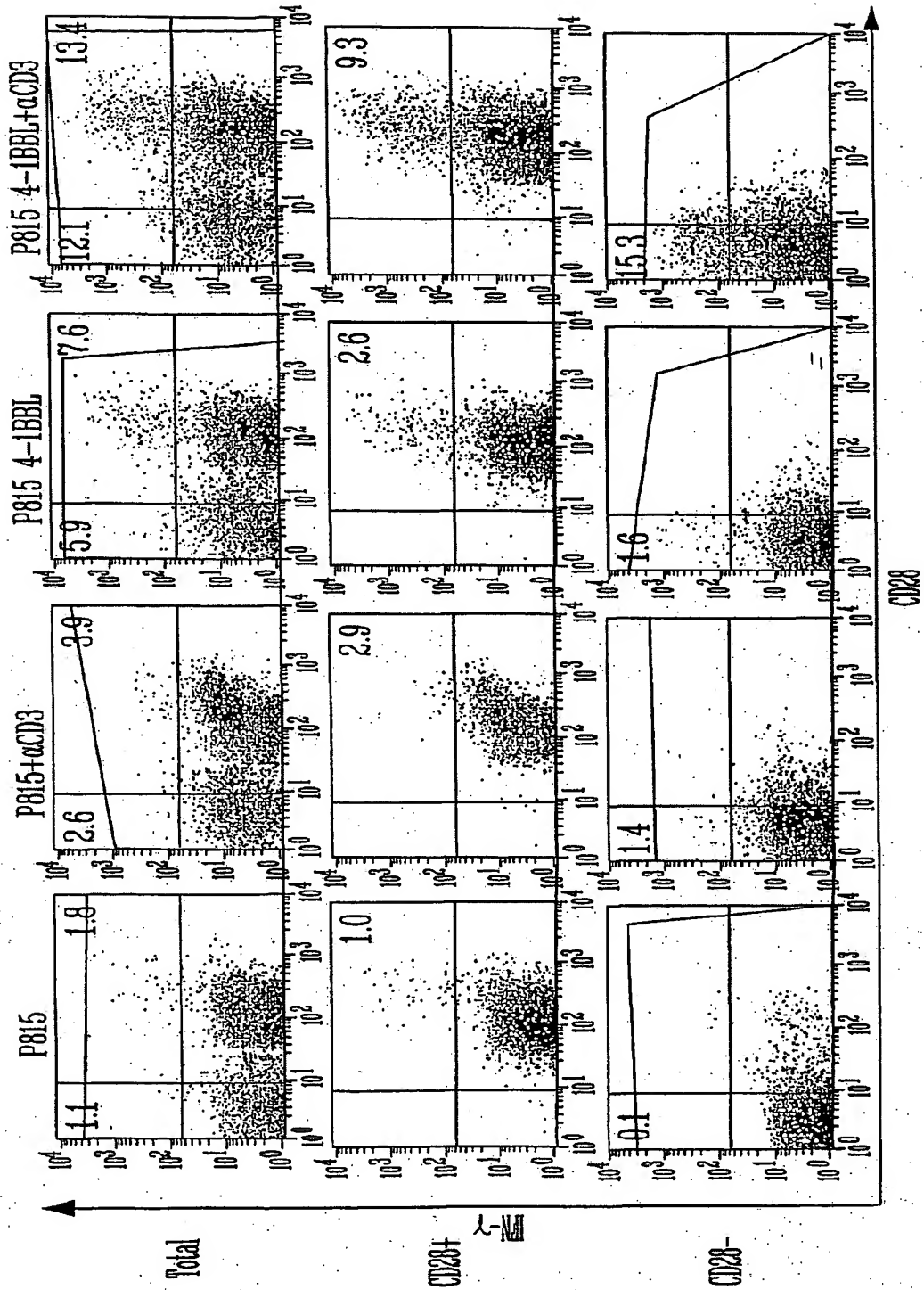
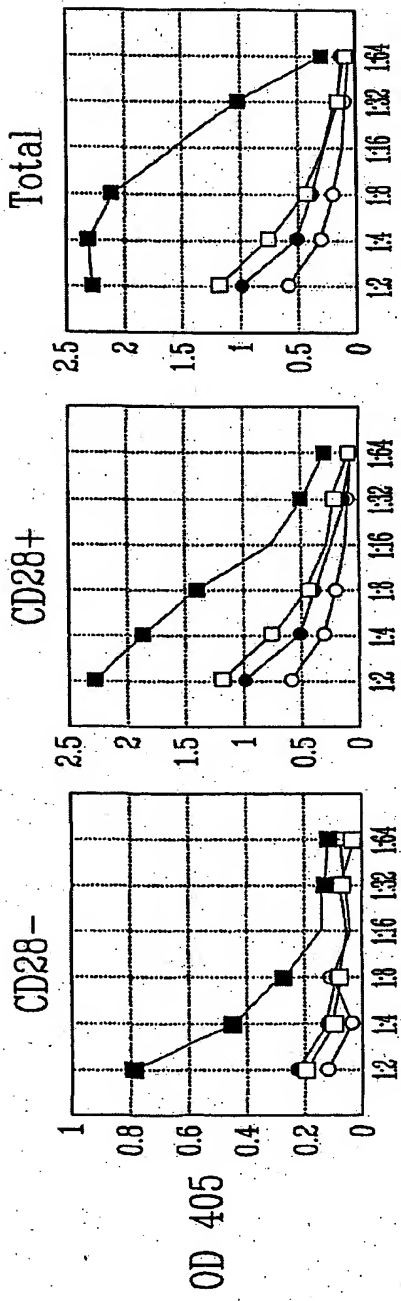


FIG. 11A

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Supernatant Dilution

FIG. 11B

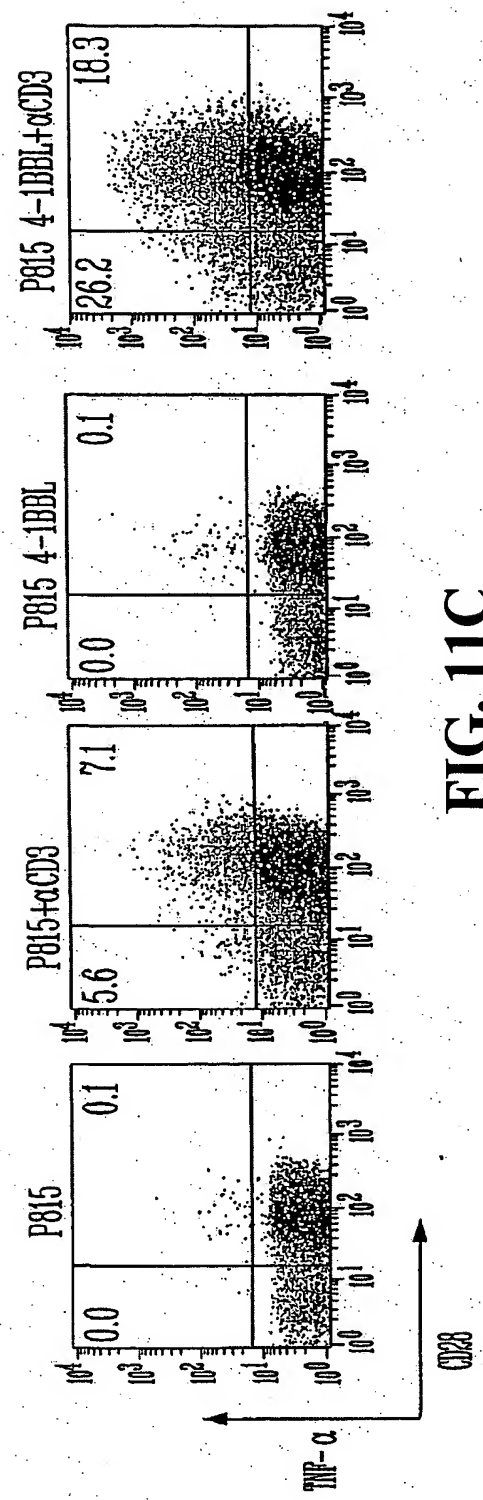
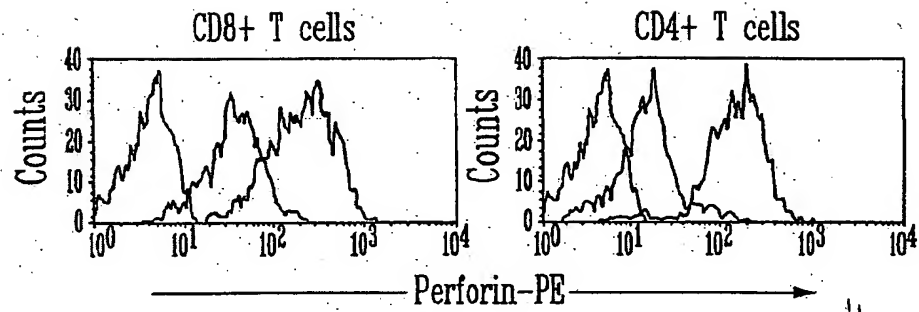
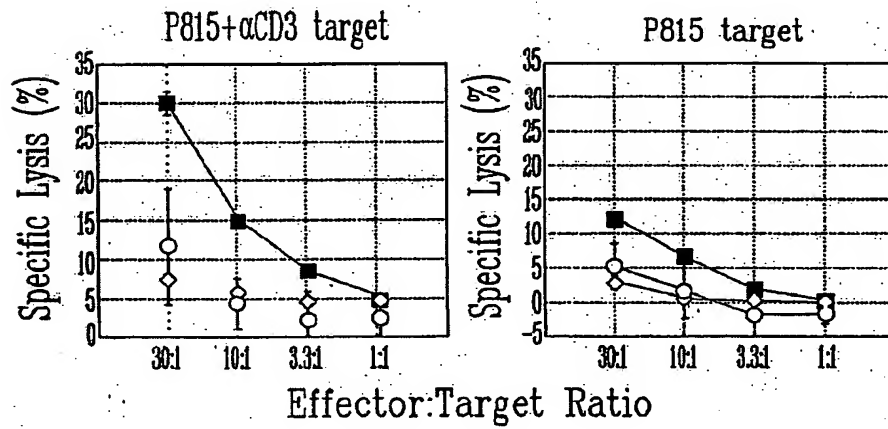


FIG. 11C

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**FIG. 12A**



**FIG. 12B**

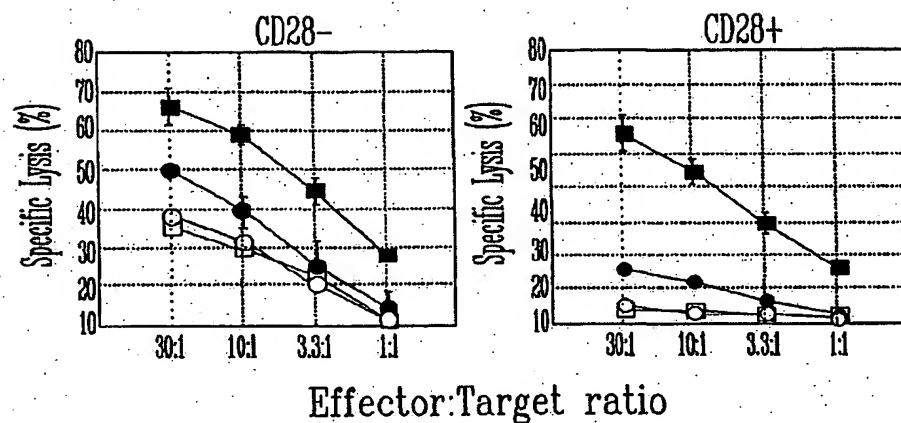


FIG. 12C

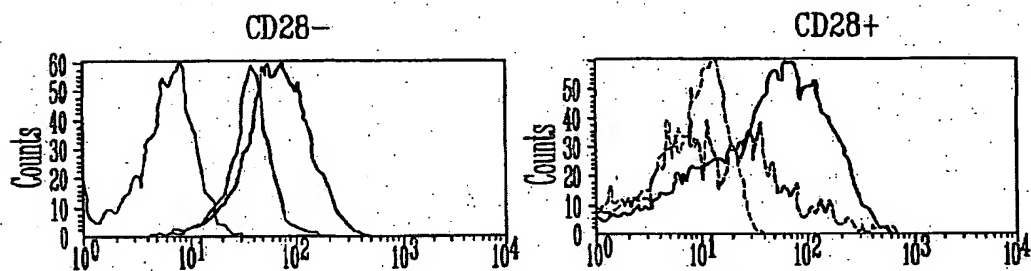


FIG. 12D

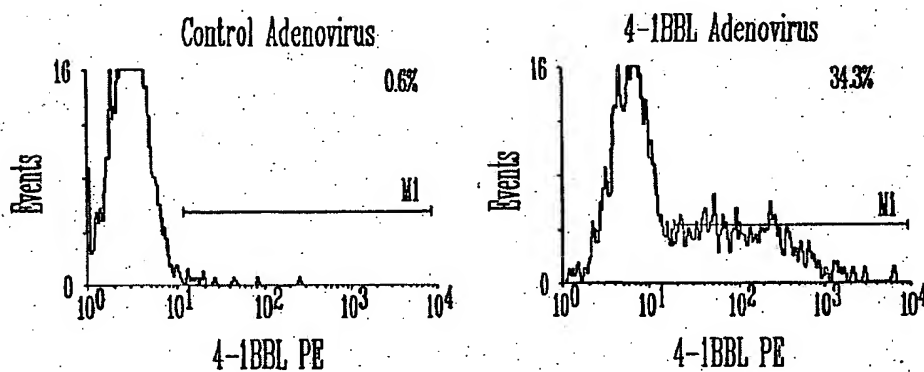


FIG. 13

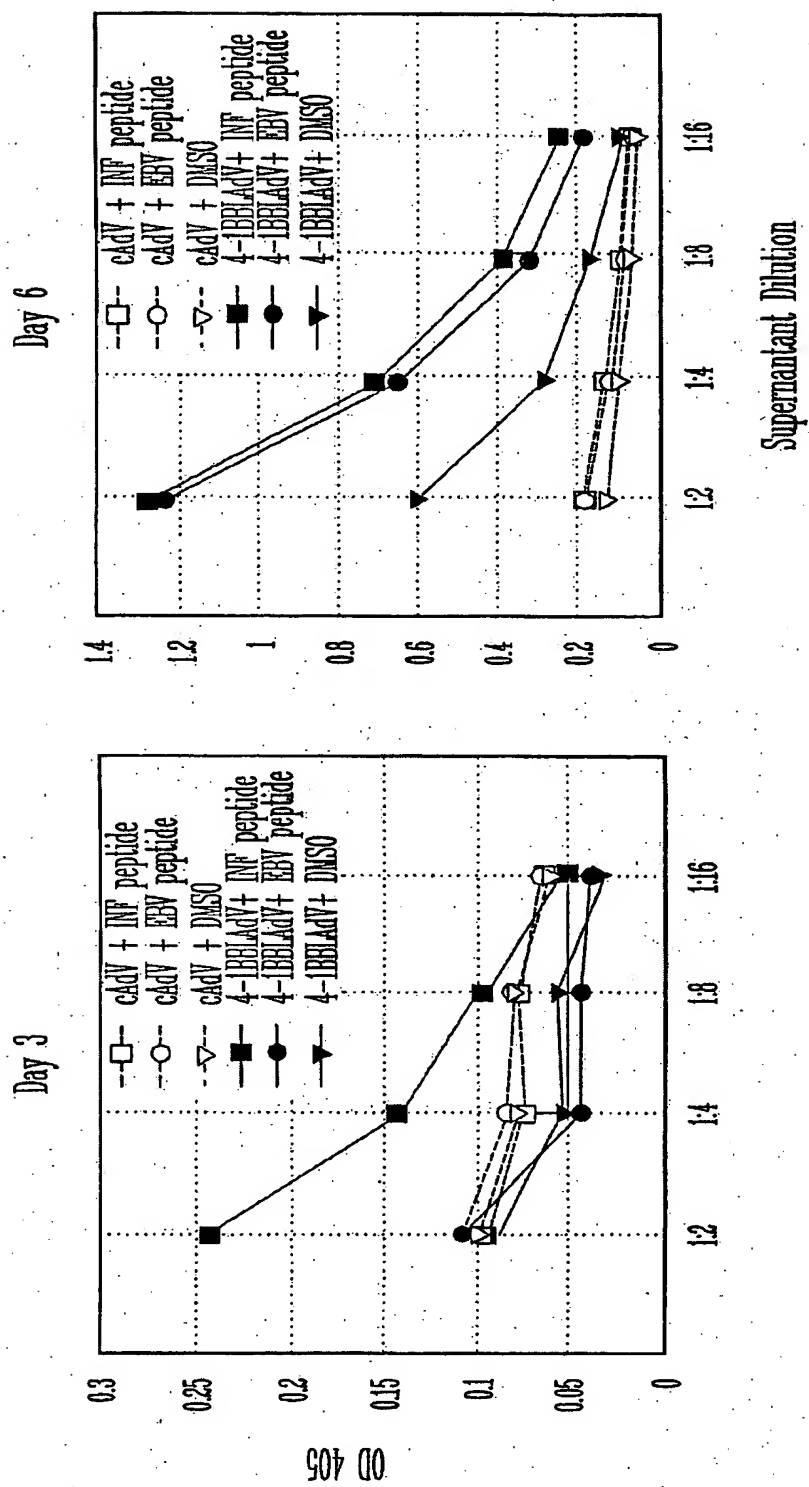
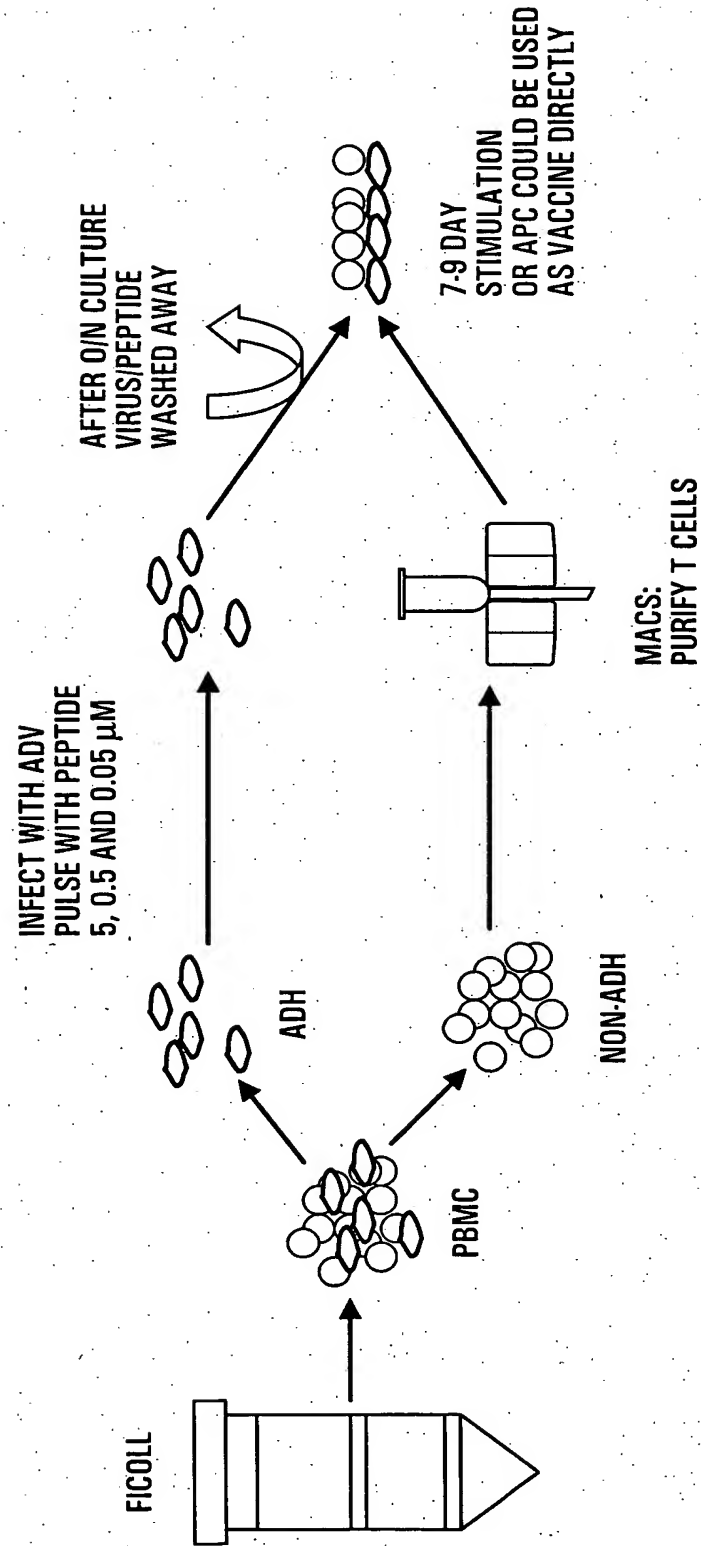


FIG. 14





**FIG. 15**

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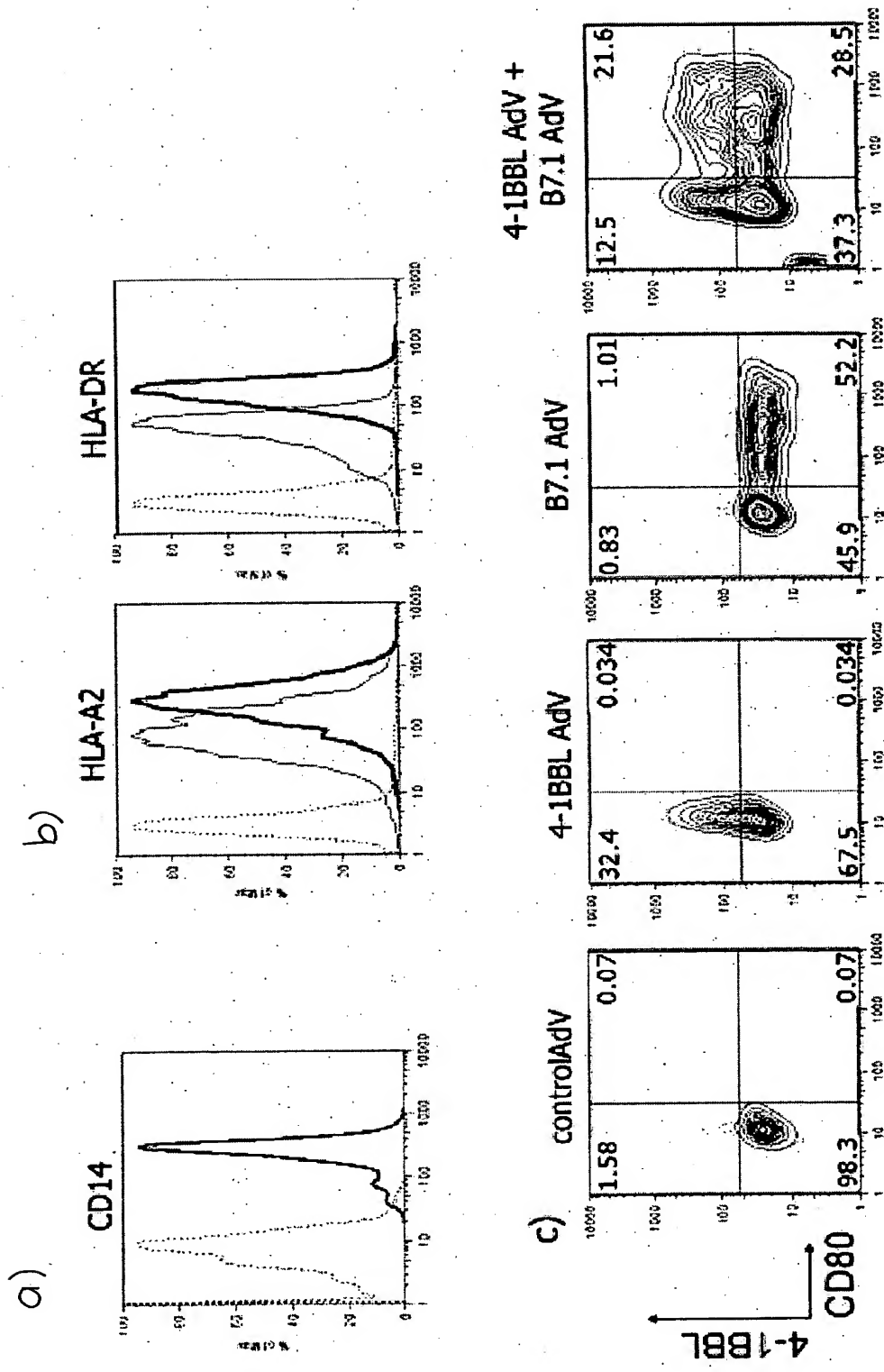
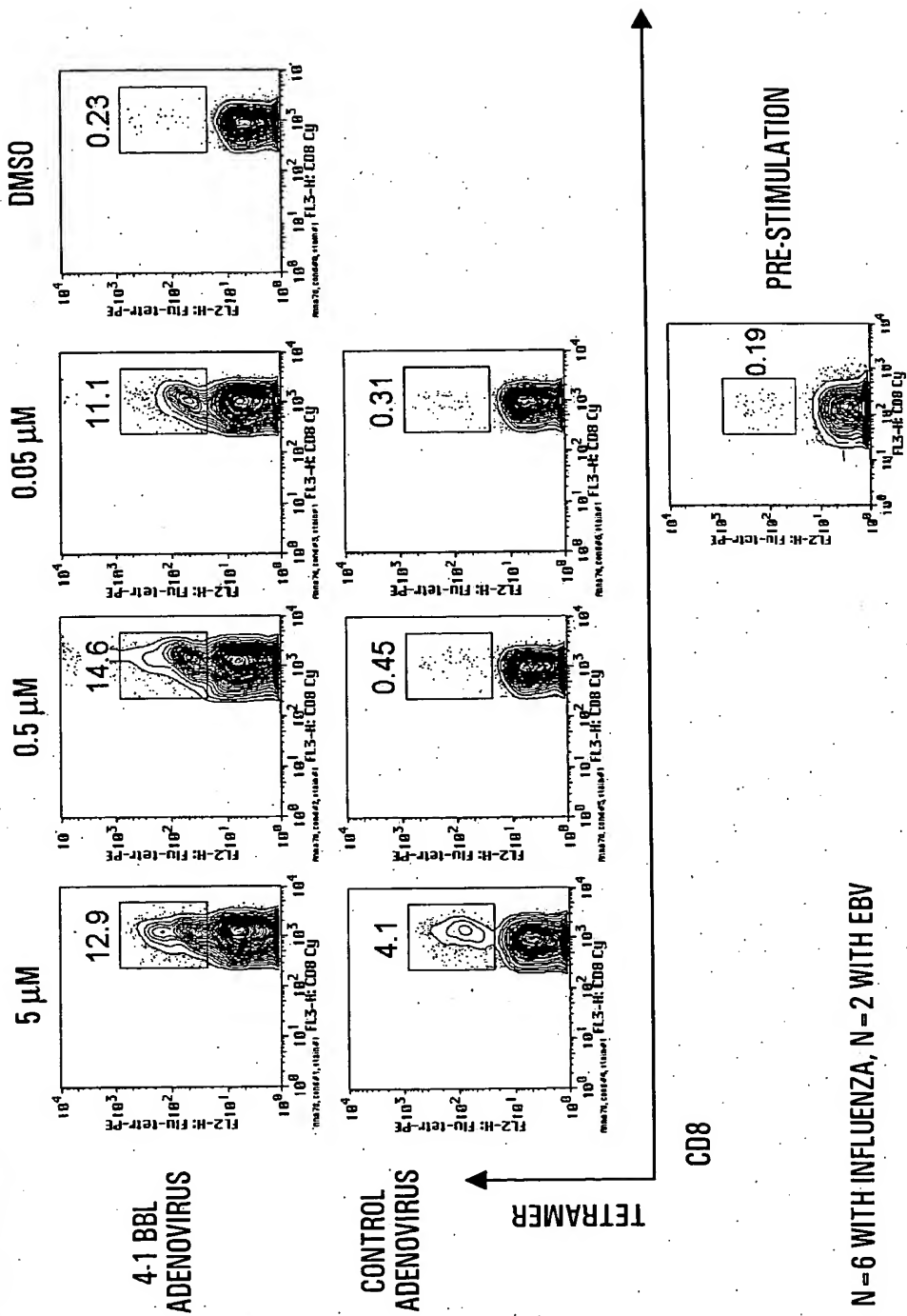


FIG. 16

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(7-DAY STIMULATION)



**FIG. 17**

(7-DAY STIMULATION)

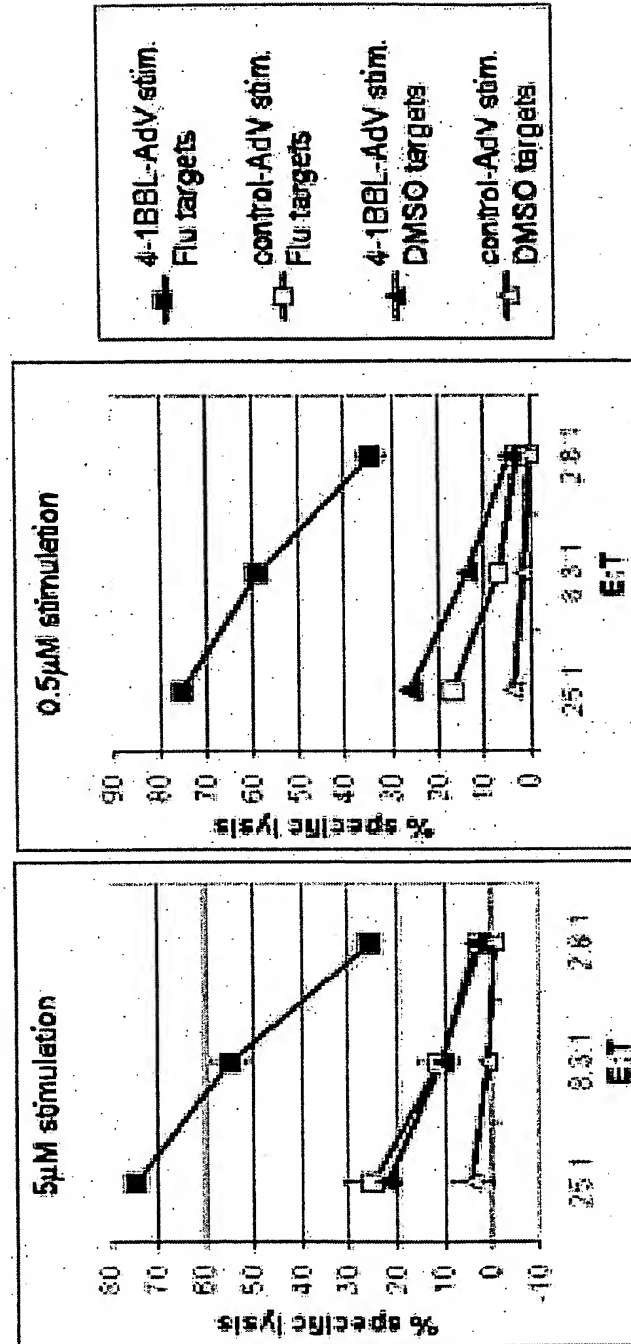
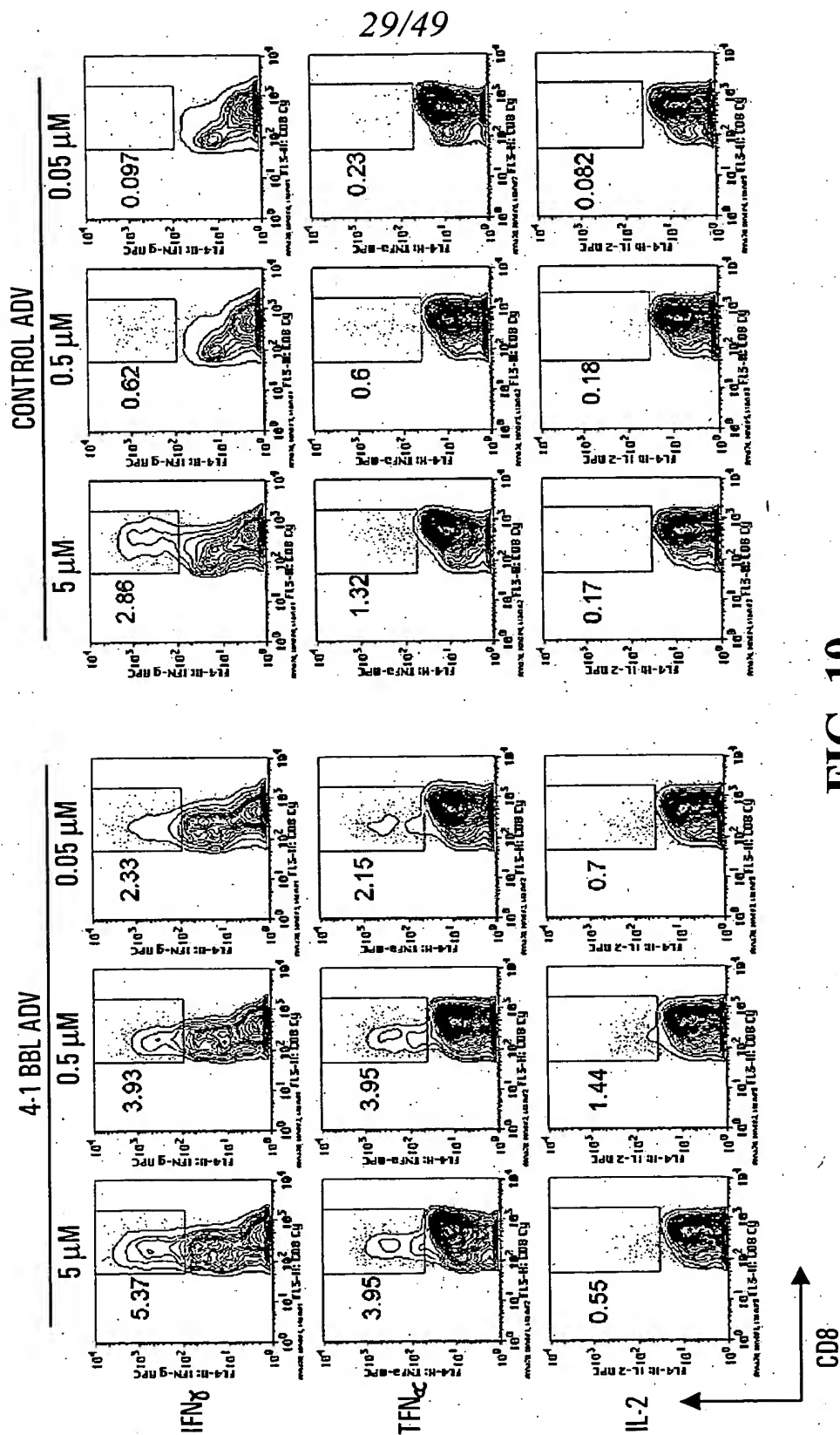


FIG. 18



**FIG. 19**

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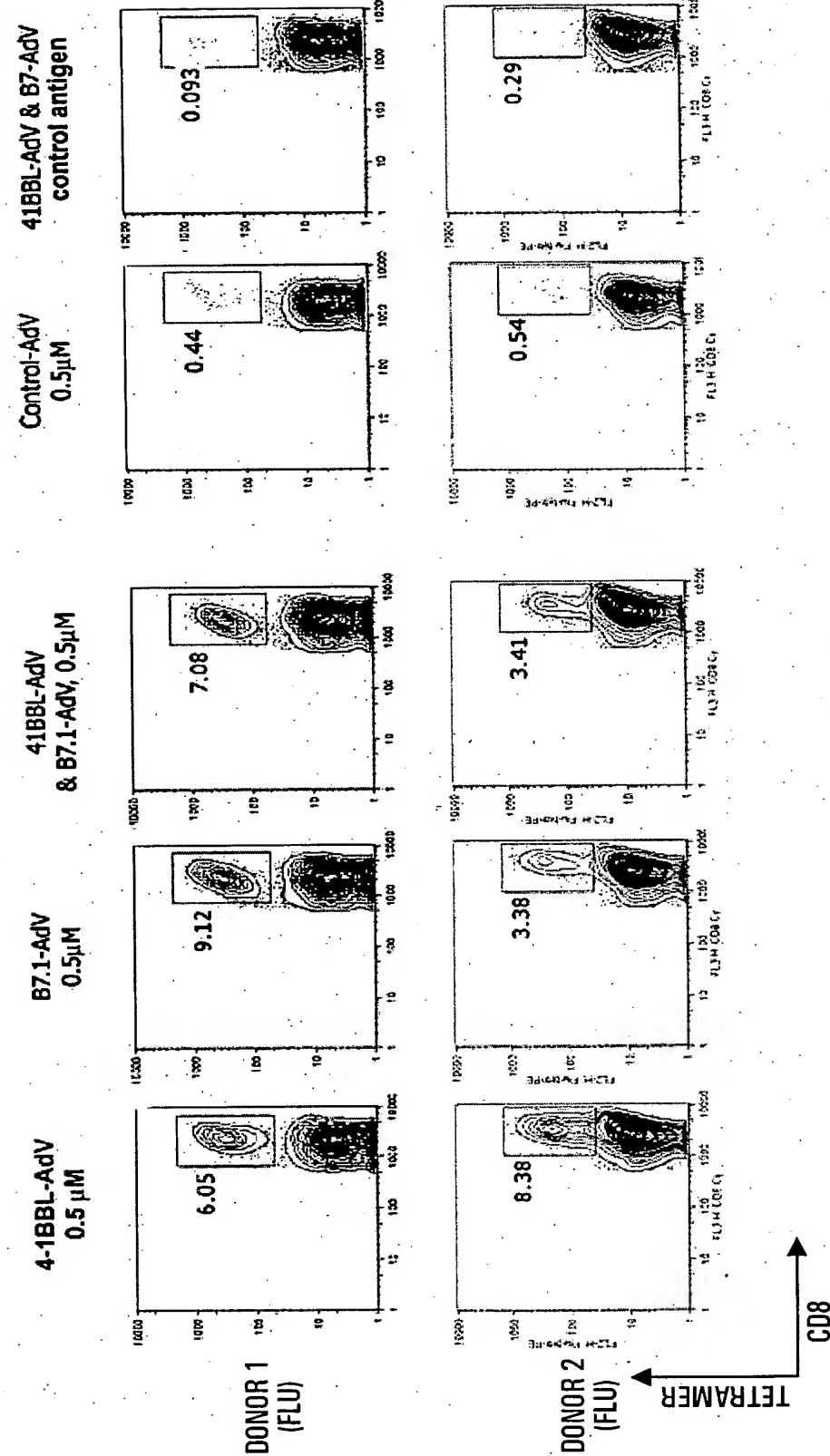


FIG. 20

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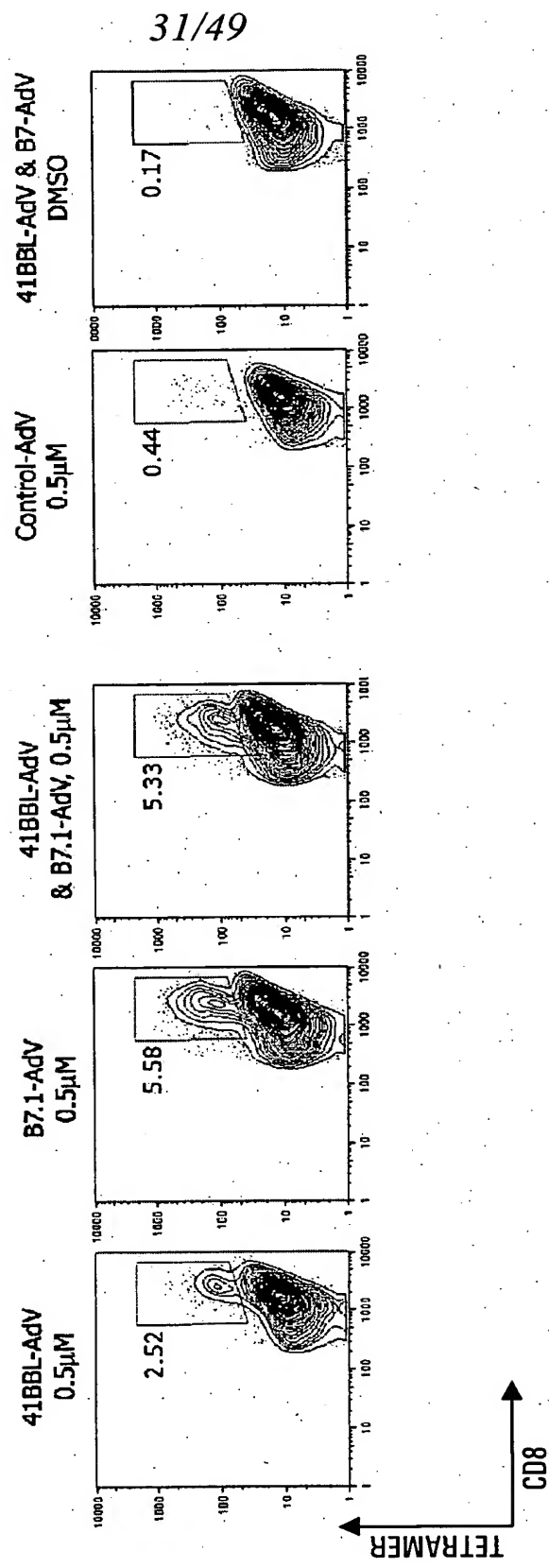


FIG. 21

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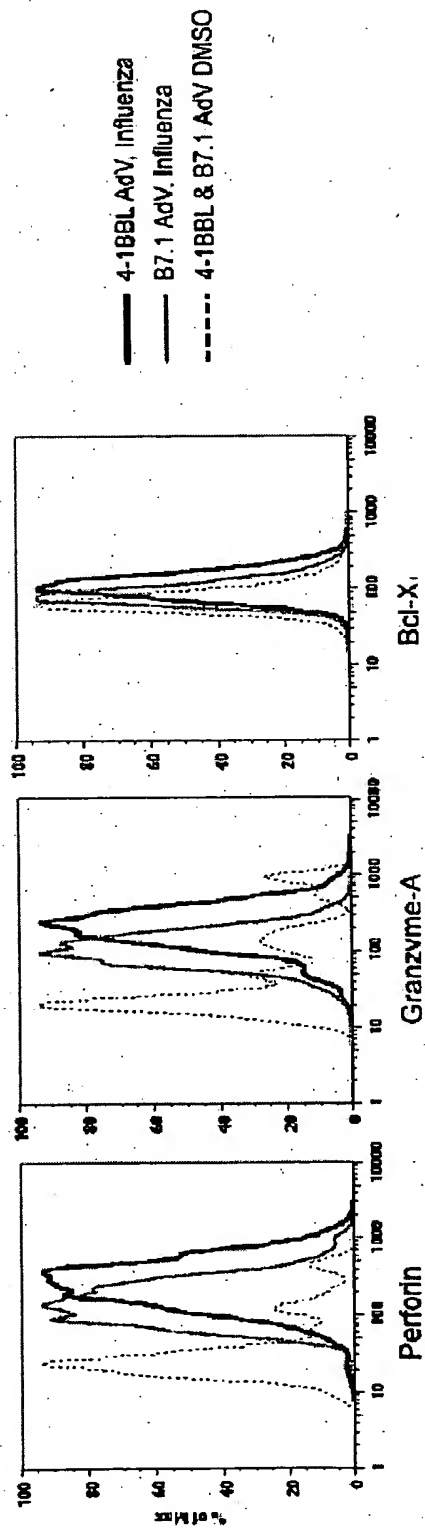


FIG. 22



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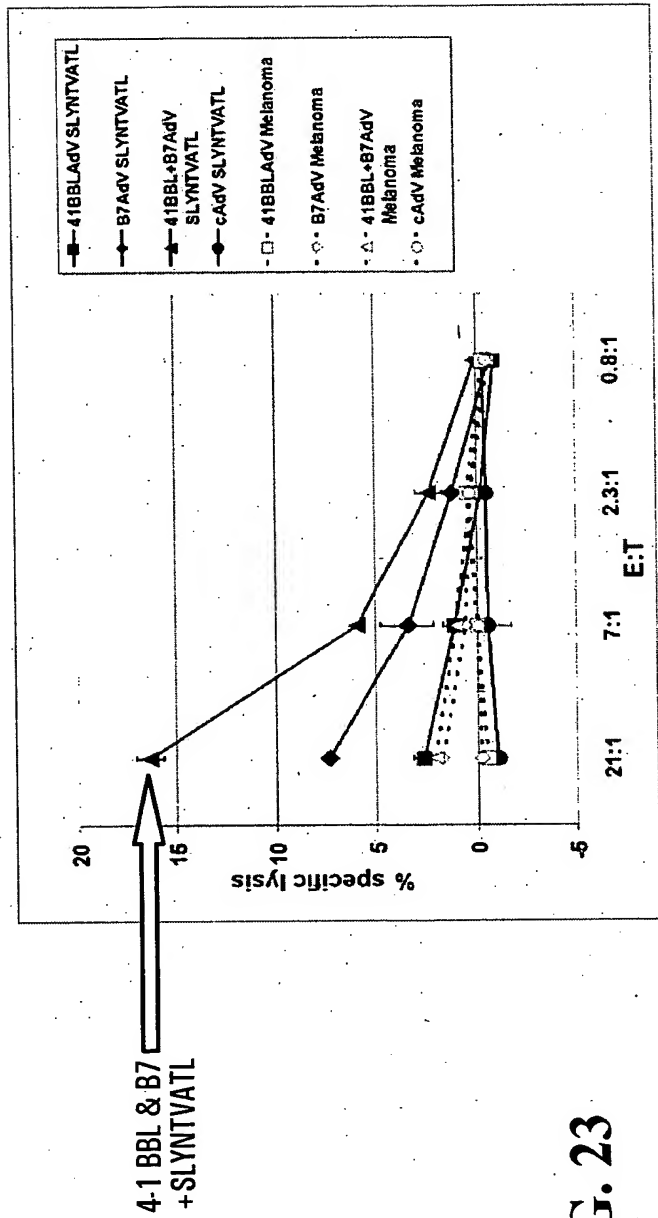
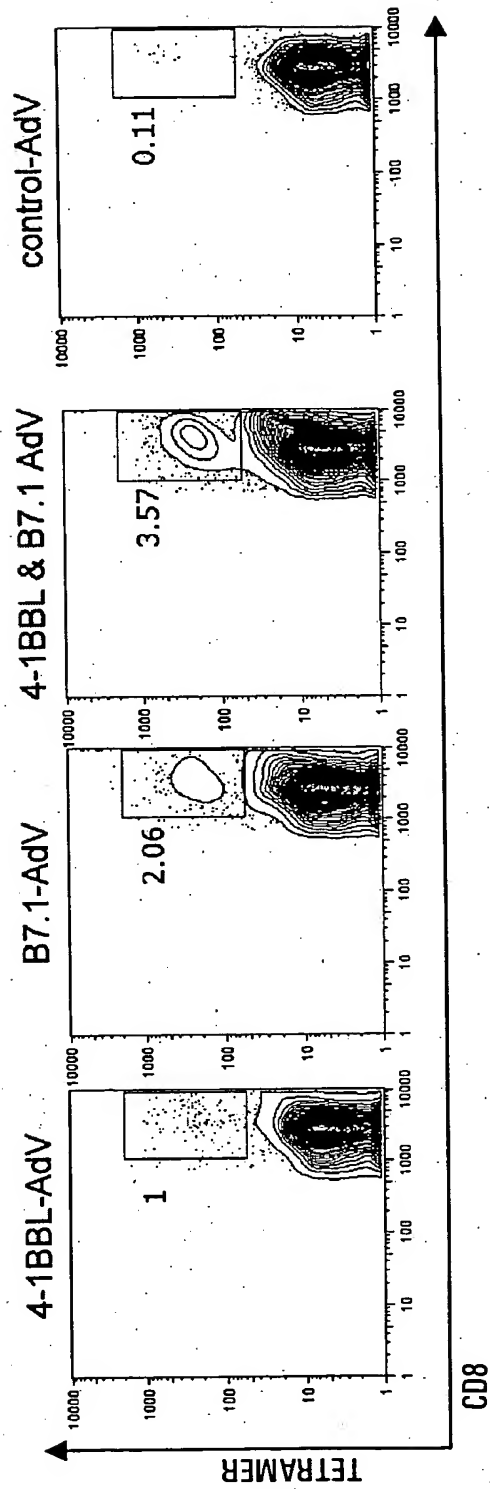


FIG. 23

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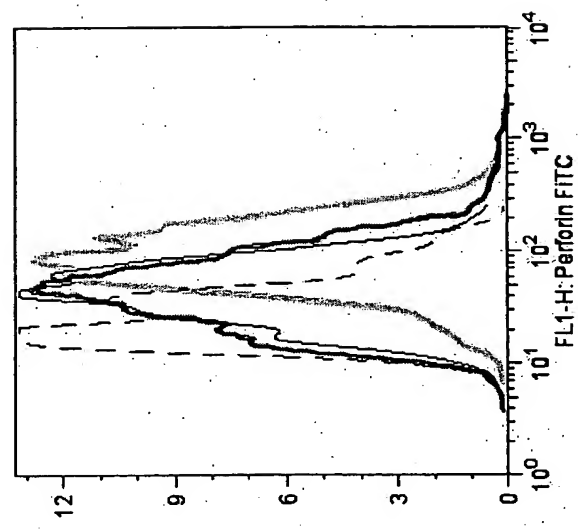
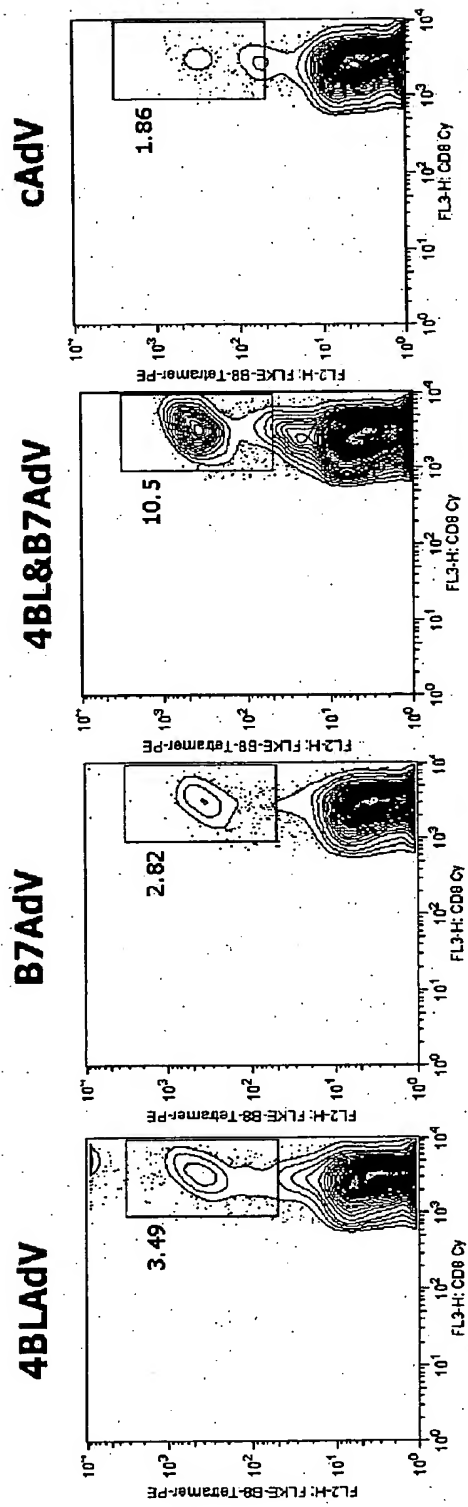


FIG. 24

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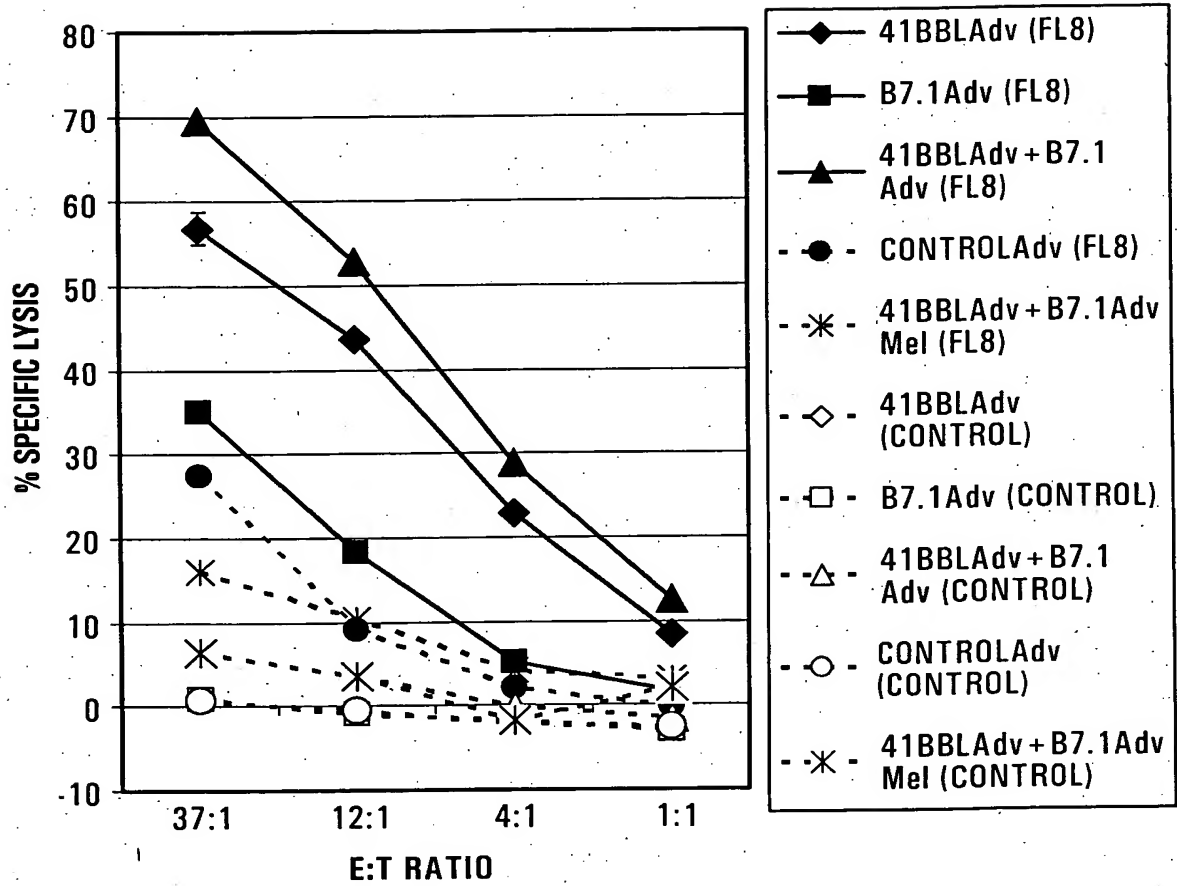


FIG. 25

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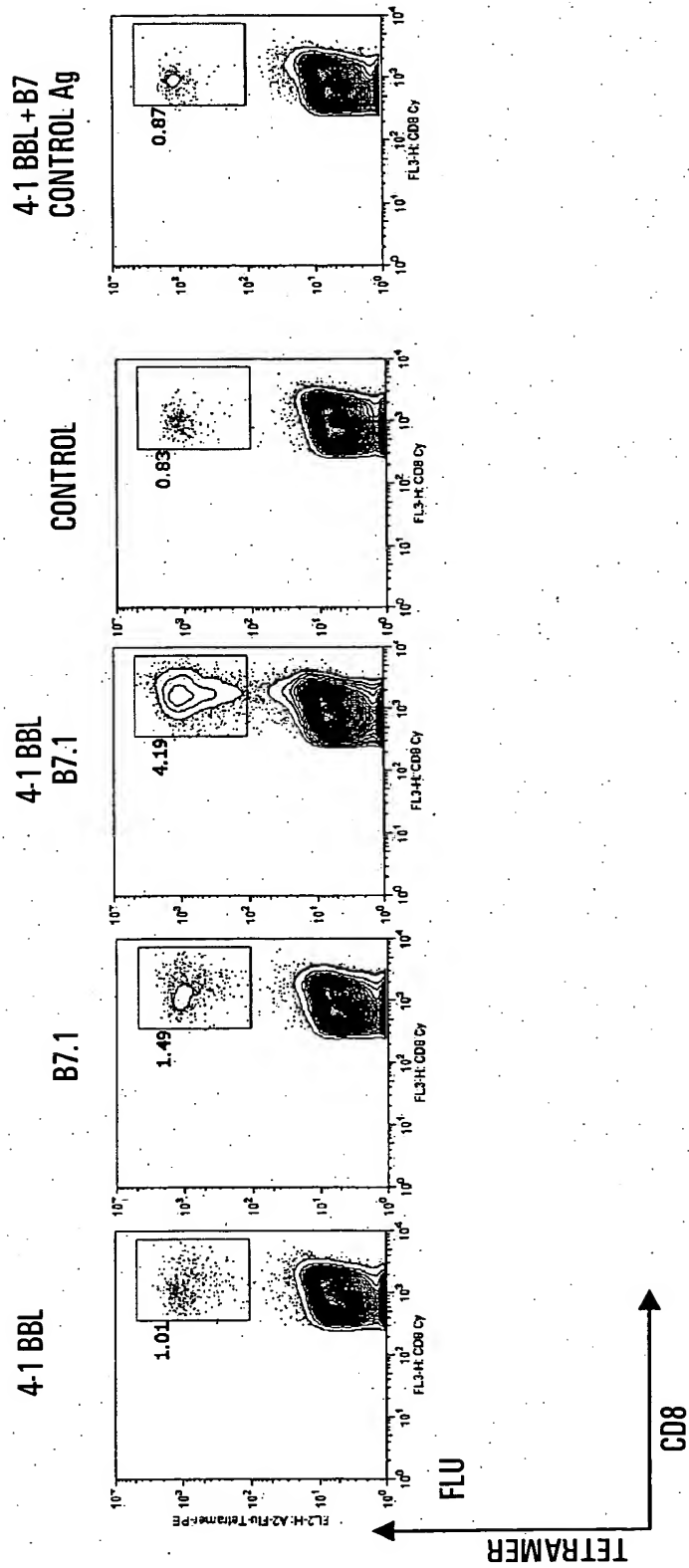


FIG. 26

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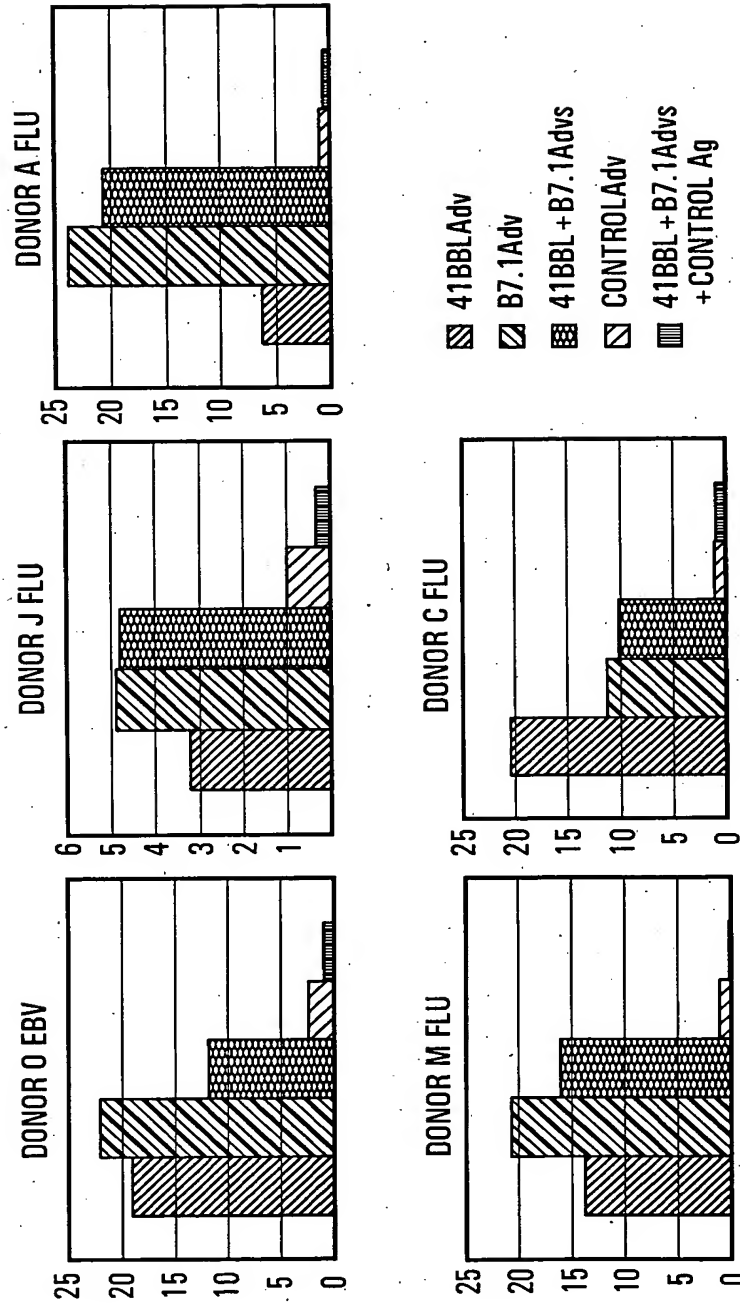


FIG. 27

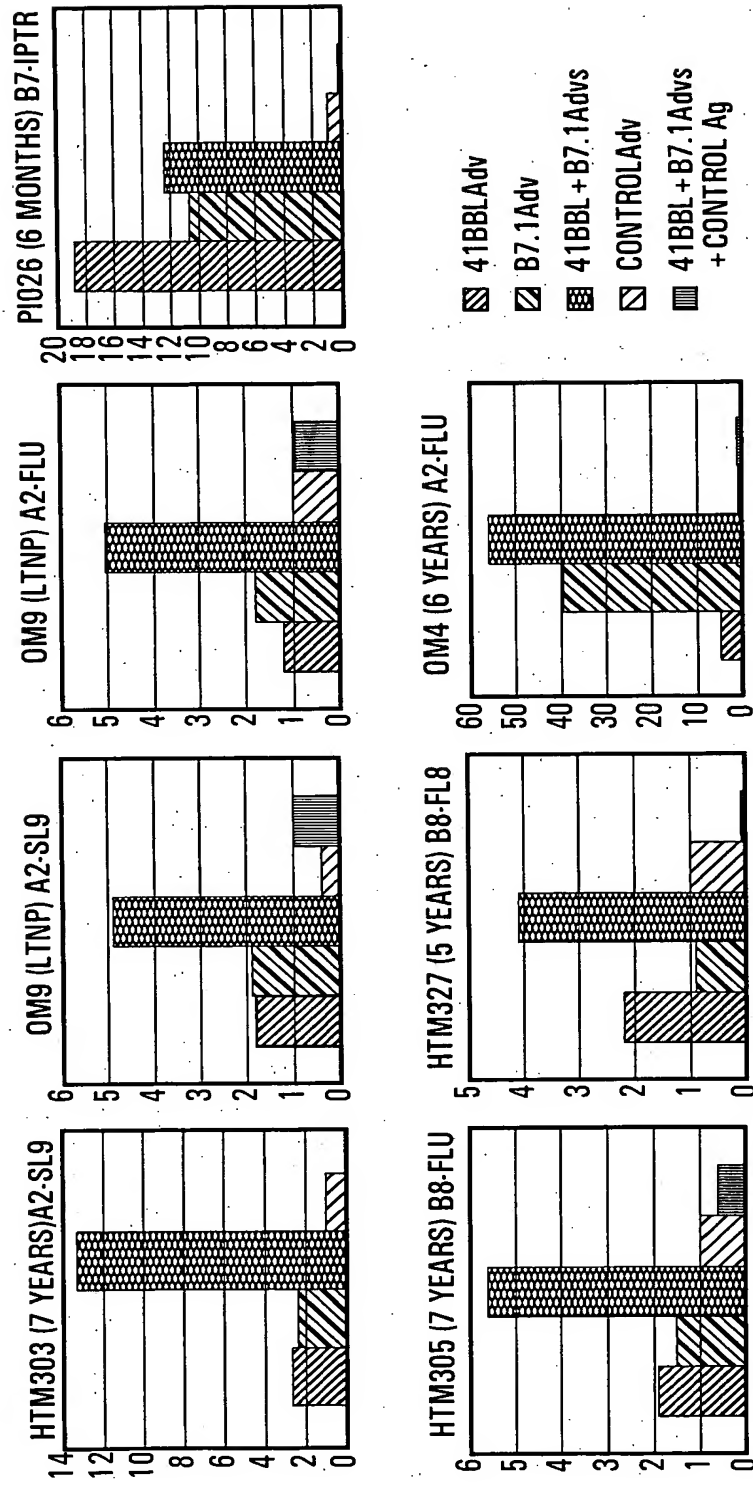


FIG. 28

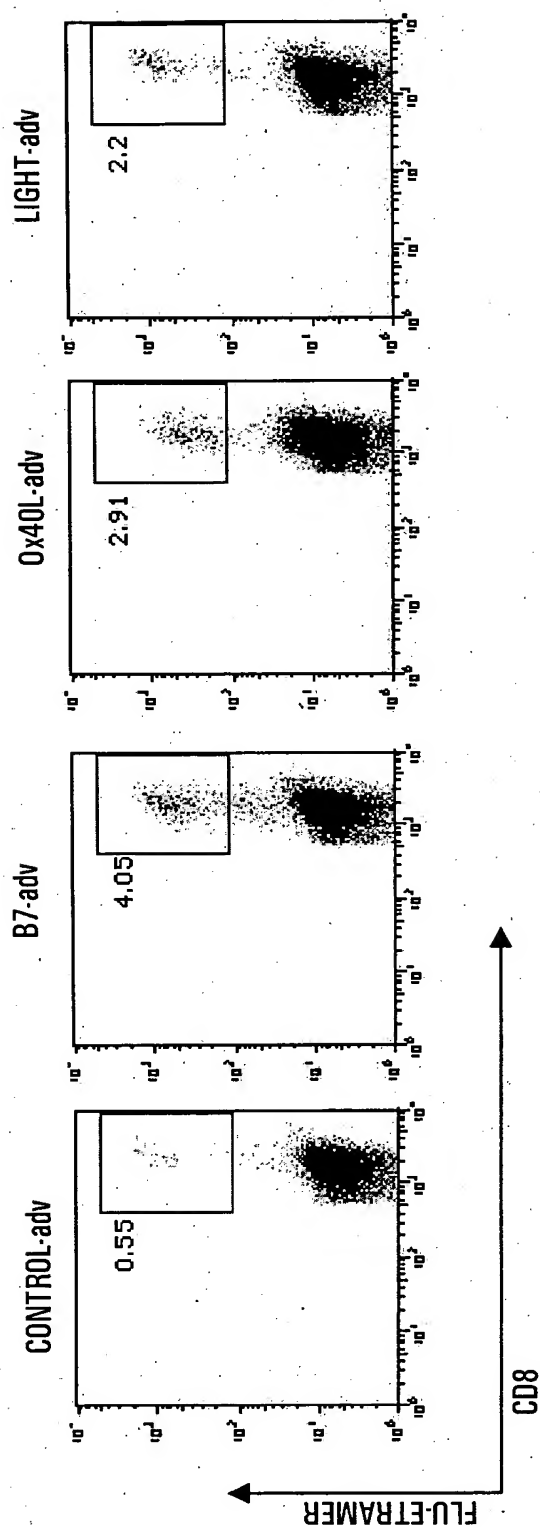


FIG. 29

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## HUMAN 4-1BBL DNA SEQUENCE (SEQ ID NO: 1)

```

1  gtcatggaat acgctctga cgcttcactg gaccccgaaag cccctgggc tcccgcgccc
61  cgcgctcgcg cctgcccgtg actgccttgg gccctggtcg cggggtgct gctgctgctg
121 ctgctcgctg ccgcttgccg cgtcttcctc gctgcccctt gggcggtgc cggggctcgc
181 gcctcgcccc gctccgcgcc cagcccgaga ctcccgaggg gtcctcgagc ttcgccccgac
241 gatcccgccc gctctcttga cctgcggcag ggcattgttg cgcagctggt ggcccaaat
301 gttctgctga tcgatggcc cctgagctgg tacagtgaac caggcctggc aggcgtgtcc
361 ctgacggggg gcctgagcta caaagaggac acgaaggagc tgggtggtgg caaggctgga
421 gtctactatg tcttctttca actagagctg cggcgctggg tggcgcgga gggctcaggg
481 tccggtttcac ttgcgctgca cctgcagcca ctgcgctctg ctgctggggc cgcgcgccctg
541 gctttgaccg tggacctgcc accgcctcc tccgaggctc ggaactcggc cttcggtttc
601 cagggccgct tgcctgacct gagtgcggc cagcgctgg gctccatct tcacactgag
661 gccaggggcac gccatgcttg gcagcttacc caggcgcca cagtcctggg actcttcggg
721 gtgacccccg aaatcccagc cggactccct tcaccaggtt cgcgaataacg cccagcctgg
781 gtgcagcccc cctggacaga gtccgaatcc tactccatcc ggttgggcag ttcattggaga cccctggtgc
841 tgggtccctg ctgctttctc tactccaagg ggctccctgc ccttgacctc tgctgacctc
901 ccttgaggga cctcctcac cactccttc ccaagtgg ccagtgtat ttattctgag
961 cctgagctca gataatat tataatat agagattgtt ttgggggggg atataattct atttaagag
1021 gatcctgagt ttgtgaatgg acttttttag aggagttgtt ttgggggggg ttgctctcgac
1081 attgccgagg ctggtcttga actcctggac tttagcagatc ctctgacctc agcctcccaa
1141 gcaactggga ttcatccttt ctattaattc attgtactta ttgacctatt tgtgtgtatt
1201 gagcatctgt aatgtgccag cattgtgccc aggctagggg gctatagaaa catctagaaa
1261 tagactgaaa gaaaatctga gttatggtaa tacgtgagga atttaagac tcatccccag
1321 cctccacctc ctgtgtgata cttggggggt agcttttttc tttctttctt ttttttgaga
1381 tggctctgtt ctgtcaacca ggctagaatg cagcggtgca atcatgagtc aatgcagcct
1441 ccagcctcga cctcccgagg ctacagtgat cctcccatct cagcctctcg agtagctggg
1501 accacagtgt tgtgccacca cacttgcta acttttaat ttttttgcg agacggatt
1561 gctatgttgc caagttgtt tacatgccag tacaatttat aataaacact catttttc

```

## HUMAN 4-1BBL POLYPEPTIDE SEQUENCE (SEQ ID NO: 2)

```

MEYASDASLD PEAPWPPAPR ARACRVLPWA LVAGLLLLLL LAAACAVFLA CPWAVSGARA
SPGSAASPRLL REGPELSPDD PAGLLDLRQG MFAQLVAQNV LLIDGPLSWY SDPGLAGVSL
TGGLSYKEDT KELVVAKAGV YYVFFQLELR RVVAGEGSGS VSLALHLOPL RSAAGAAALA
LTVDLPPASS EARNSAFGEFQ GRLLHLSAGQ RLGVHLHTEA RARHAWQLTQ GATVILGFRV
TPEIPAGLPS PRSE

```

FIG. 30

+



HUMAN B7.1 DNA SEQUENCE (SEQ ID NO: 3)

```

1  aagtaacaga agttagaagg ggaatgtcg cctctctgaa gattacccaa agaaaaagtg
61  atttgtcatt gctttataga ctgtaagaag agaactctc agaagtggag tcttaccctg
121  aatcaaaagg atttaaagaa aaagtggaat ttttcttcag caagctgtga aactaaatcc
181  acaacctttg gagaccagg aacacctcc atctctctg aatctttgta acatcactgg
241  aggtctctct acgtgagcaa ttggattgtc atcagccctg cctgttttgc accctgggaag
301  tgcctgggtc ttacttgggt ccaaatgtt ggttttcacl tttgacccta agcatctgaa
361  gccatgggcc acacacggag gcagggaaca tcacctcca agtgtccata cctcaatttc
421  tttcagctct tgggtctggc aacgctgtcc tggtctttct cacttctgtt caggtgttat ccacgtgacc
481  aaggaaagtg aagaagtggc gcaaaaggag agaaaatgg agtgtctgtg tgaagagctg
541  gcacaaactc gcatctactg gtacaaagac cgaccatct ttgatatcac taataacctc
601  gacatgaata tatggcccg aacgctgtcc gacgagggca catcacgtg tgttgttctg
661  tccattgtga tccgtgctct caagcgggaa cactggctg aagtgcgtt atcagtcaaa
721  aagtatgaaa aagacgcttt tatactgac tttgaaatc caacttctaa tattagaagg
781  gctgacttcc ctacacctag aggttttcca gacctcacc tctcctggtt ggaaaaatgga
841  ataatttgct caacctctgg cacaacagtt tcccaagac ctgaaactga gctctatgct
901  gaagaattaa atgccatcaa caatatgaca accaaccaca gcttcatgtg tctcatcaag
961  gttagcacatt aactggattt caatatgaca accaaccaca gcttcatgtg agagcatttt
1021  tatggataacc tgctcccatc tcagaccttc aactggaata cagtaaatgg aatttttgtg
1081  ctgtactgcc tgacctactg ctgtgcccc agatgcagag agagaaggag gaatgagaga
1141  atagagaagg aaagtgtacg ccctgtataa cagtgtccgc agaagcaagg ggctgaaaaa
1201  ttgagaagggt ctacactcca tttgcaattg acctcttctg ggaactctc cagatggaca
1261  atctgaaggt accctgccct ttacgtatct gctcttaggt gcttcttcac ttcagttgct
1321  agattacccc accctgacct aatatggtgg gcacagaagt agctctggtg accttgatca
1381  ttgcagggaag tgtctagagg ttcttgagtt ctggaaggga ctttagagaa taccagtgtt
1441  aggggttttg aaatgcagaa gcccaggga ggtgacctga attataaagg ccagcgccag
1501  attaatgaca aaggcactga ggtgctcttt ccctttatca gtttgactgt ggcctgttaa
1561  aacccagatt tcctaactct tcaggcctggg tgctgctgga agtagaattt gtccaataac
1621  ctggtatata cataatatg ctgatttctc aatgtcagag tagaagattt tatgctgctg
1681  aggtcaactt cagagactat tgcataggaa gtatggcatg aacatcttta ggagactaat
1741  tttacaaaag cccaatgtaa cccagtattc cattttttct attgtgttct ctattgctgc
1801  gaaaatatta ttggtgttta cccagtattc tacagcagaa aggagaacta tccaaaacta atttctctg
1861  tctctcactc ccccatgagg tacagcagaa aggagaacta tccaaaacta atttctctg
1921  acatgtaaga cgaatgattt aggtacgtca aagcagtagt caaggaggaa agggatagtc
1981  caagacttta actggttcat attggactga taatctcttt aaatggcctt atgctagttt
2041  gacctcattt gtaaaaatatt tatgagaaag ttctcattta aaatgagatc gttgtttaca

```

FIG. 31

2101 gtgtatgtac taagcagtaa gctatcttca aatgtctaag tagtaactt tccatagggc  
 2161 ctccttagat ccctaagatg gctttttctc ctgtgtattt ctgggtcttt ctgacatcag  
 2221 cagagaactg gaaagacata gccaaactgct gtatcatgta ctcatgactc ctttctctaa  
 2281 aactgccttc cacaattcac tagaccagaa gtggacgcaa cttaagctgg gataatcaca  
 2341 ttatcatctg aaaatctgga gttgaacagc aaaagaagac aacatttctc aatgacacat  
 2401 ctcatggcag ctaagccaca tggctgggat ttaaagcctt tagagccagc ccatggcctt  
 2461 agctacctca ctatgctgct tcacaaacct tgctcctgtg taaaactata ttctcagtgt  
 2521 agggcagaga ggtctaacac caacataagg tactagcagt gttcccgta ttgacaggaa  
 2581 tacttaactc aataattctt ttcttttcca tttagtaaca gttgtgatga ctatgtttct  
 2641 attctaagta attcctgtat tctacagcag atactttgtc agcaatacta agggaagaaa  
 2701 caaagttgaa ccgtttctt aataaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa  
 2761 aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa  
 2821 aaaa

# HUMAN B7.1 POLYPEPTIDE SEQUENCE (SEQ ID NO: 4)

MGHTRRQGTSPSKCPYLNFQLLVLGLSHFCSGVIHVTKEVKE  
 VATLSCGHNVSVEELAQTRIYWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIV  
 ILALRPSDEGTYESVVKYEKDAFKREHLAEVTLVKADFTPSISDFEIPTSNIRRI  
 ICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSSKLDENMTNHSFMCLI  
 KYGHLRVNQTFNWNNTTKQEHFPDNLPSWAITLISVNGIFVICCLTYCFAPRCRERR  
 NERLRRESVRPV

**FIG. 31**  
 (CONTINUED)

HUMAN B7.2 DNA SEQUENCE (SEQ ID NO: 5)

```

1  ggaaggcttg  cacaggggtga  aagctttgct  tctctgctgc  tgtaacaggg  actagcacag
61  acacacggat  gagtggggtc  atttccagat  attaggtcac  agcagaagca  gccaaaatgg
121  atccccagtg  cactatggga  ctgagtaaca  ttctctttgt  gatggccttc  ctgctctctg
181  gtgctgctcc  tctgaagatt  caagcttatt  tcaatgagac  tgcagacctg  ccatgccaat
241  ttgcaaacctc  tcaaaaccaa  agcctgagtg  agctagtagt  attttggcag  gaccaggaaa
301  acttggttct  gaatgaggtg  tacttaggca  aagagaaatt  tgacagtgtt  cattccaagt
361  atatgggccc  cacaagtgtt  gattcggaca  gtggaccctt  gagacttcac  aatcttcaga
421  tcaaggacaa  ggccttgtat  caatgtatca  tccatcacaa  aaagcccaca  ggaatgattc
481  gcatccacca  gatgaattct  gaactgtcag  tgcttgctaa  cttcagtcac  cctgaaaatg
541  taccaatctc  taataataca  gaaaatgtgt  acataaattt  gacctgctca  tctatacacg
601  gttaccacga  acctaaagag  atgagtgttt  tgctaagaac  caagaattca  actatcgagt
661  atgatggtat  tatgcagaaa  tctcaagata  atgtcacaga  actgtacgac  gtttccatca
721  gcttgcttgt  ttcatctcct  gatgttacga  gcaatatgac  catcttctgt  attctggaaa
781  ctgacaagac  gcggctttta  tcttcacctt  tctctataga  gcttgaggac  cctcagcctc
841  cccagacca  cattccttgg  attacagctg  tacttccaac  agttattata  tgtgtgatgg
901  ttttctgtct  aattctatgg  aaatggaaga  agaagaagcg  gcctcgcaac  tcttataaat
961  gtggaaccaa  cacaatggag  agggaagaga  gtgaacagac  caagaaaaga  gaaaaaatcc
1021  atatacctga  aagatctgat  gaagcccagc  gtgtttttaa  aagttcgaag  acatcttcat
1081  gcgacaaaaa  tgatacatgt  ttttaattaa  agagtaaagc  ccatacaagt  attcattttt
1141  tctacccttt  cctttgtaag  ttccctgggc  accttttga  tttctccag  aaggcaaaaa
1201  gacattacca  tgagtaataa  gggggctcca  ggactccctc  taagtggaat  agcctccctg
1261  taactccagc  tctgctccgt  atgccaagag  gagactttaa  ttctcttact  gcttcttttc
1321  acttcagagc  acacttatgg  gccaaagcca  gcttaatggc  tcatgacctg  gaaataaaat
1381  ttaggaccaa  tacctcctcc  agatcagatt  cttctcttaa  ttcatagat  tgtgtttttt
1441  tttaaaataga  cctctcaatt  tctggaaaac  tgccttttat  ctgcccagaa  ttctaagctg
1501  gtgccccact  gaatcttgtg  tacctgtgac  taaacaacta  cctcctcagt  ctgggtggga
1561  cttatgtatt  tatgacctta  tagtgttaat  atcttgaaac  atagagatct  atgtactgta
1621  atagtgtgat  tactatgctc  tagagaaaaa  tctacccttg  ctaaggagtt  ctcatccctc
1681  tgtcagggtc  agtaaggaaa  acggtggcct  aggttacagg  caacaatgag  cagaccaacc
1741  taaatttggg  gaaattagga  gaggcagaga  tagaacctgg  agccaactct  atctgggctg
1801  ttgctaatat  tgaggaggct  tgccccacc  acaagccat  agtggagaga  actgaataaa
1861  caggaaaatg  ccagagcttg  tgaacctgt  ttctctgaa  gaactgacta  gtgagatggc
1921  ctggggaagc  tgtgaaagaa  ccaaaagaga  tcacaatact  caaagagag  agagagagaa
1981  aaaagagaga  tcttgatcca  cagaaaata  tgaatgtct  ggtctgtcca  cccatcaac
2041  aagtccttga  acaagcaaca  gatggatagt  ctgtccaaat  ggacataaga  cagacagcag
2101  tttccctggt  ggtcaggagg  ggtttttggt  gataccacag  ttattgggat  ttcattcttc

```

FIG. 32

2161 tggaagcaga gctggggagg gagagccatc accttgataa tgggatgaat ggaaggaggc  
 2221 ttaggacttt ccactcctgg ctgagagagg aagagctgca acggaattag gaagaccaag  
 2281 acacagatca cccggggctt acttagccta cagatgtcct acgggaacgt gggctggccc  
 2341 agcatagggc tagcaaat ttgagtgatg atgtgttttg ctcaaggcaa ccagaggaaa  
 2401 ctgcatata gagacagata tactgggaga aatgactttg aaacctggc tctaagggtgg  
 2461 gatcactaag gatggggca gtctctgccc aaacataaag agaactctgg ggagcctgag  
 2521 ccacaaaaat gtccctttat ttatgtaaa ccctcaagg ttatagactg ccatgctaga  
 2581 caagcttgtc catgtaatat tcccatgttt ttaccctgcc cctgccttga ttagactcct  
 2641 agcacctggc tagtttctaa catgttttgt gcagcacagt ttttaataaa tgcttgttac  
 2701 attcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa  
 2761 aaaaaaaaaa aaaaaaaaaa a

# HUMAN B7.2 POLYPEPTIDE SEQUENCE (SEQ ID NO: 6)

MDPQCTMGLSNILFVMAFLLSGAAPLKIQAYFNETADLPCQFAN  
 SQNSLSELVFWQDENLVNEVYLGKEKEDSVHSKYMGRTSFSDSDSWTLRLHNLQI  
 KDKGLYQCIHHKKPTGMIRIHQMNSSELSVLANFSQPEIVPISNITENVYINLTCSII  
 HGYPEPKKMSVLLRTKNSTIEYDGIMQKSQDNVTELYDVSISSVSFPDVTSNMTIFC  
 ILETDKTRLSSPFSIELEDPPPDHPWITAVLPTVICVMVFCLILWKWKKKRRP  
 RNSYKCGTNTMEREESEQTKKREKIHIPERSDEAQRVFKSSKTSKSDKSDTCF

**FIG. 32**  
 (CONTINUED)

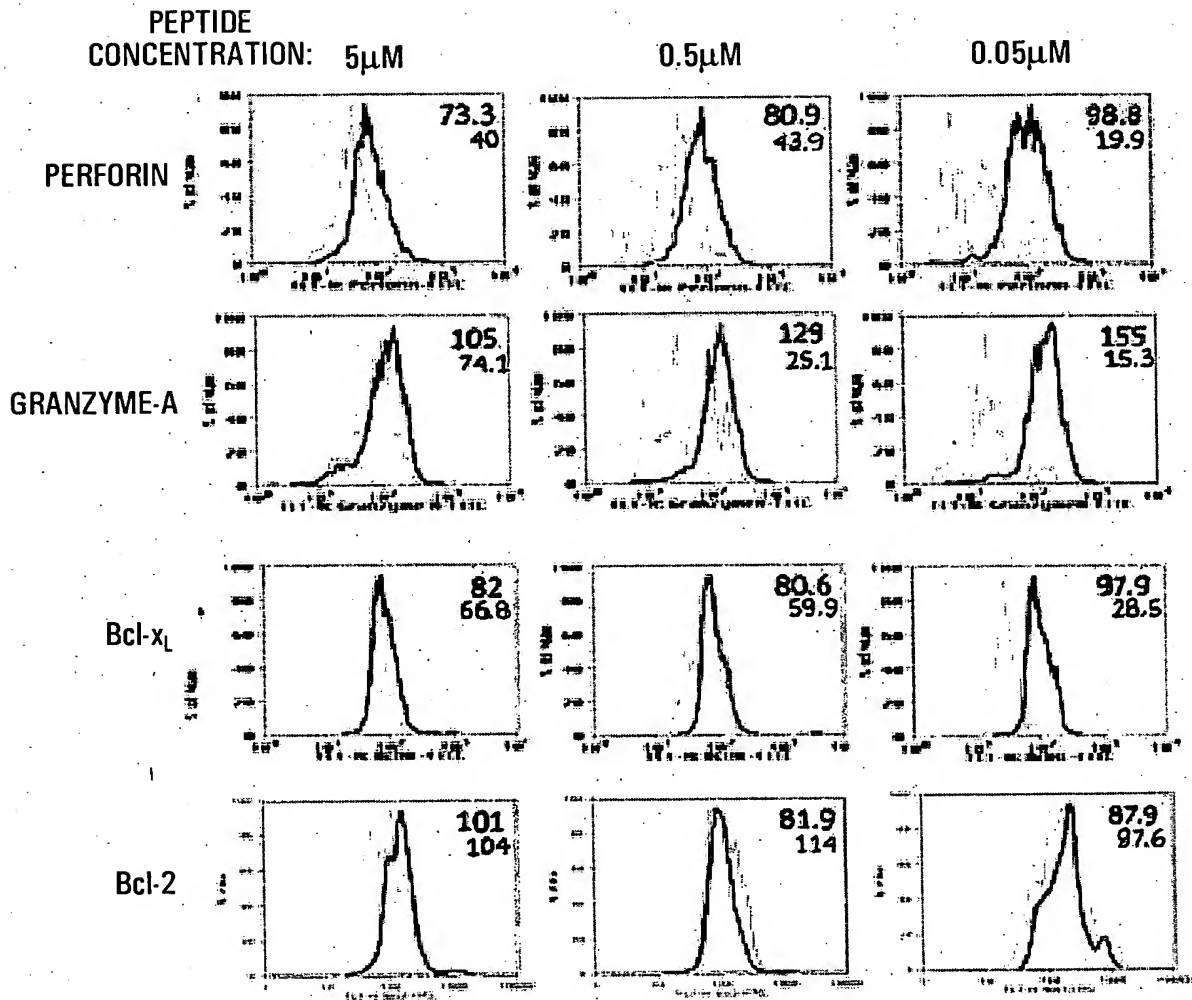


FIG. 33

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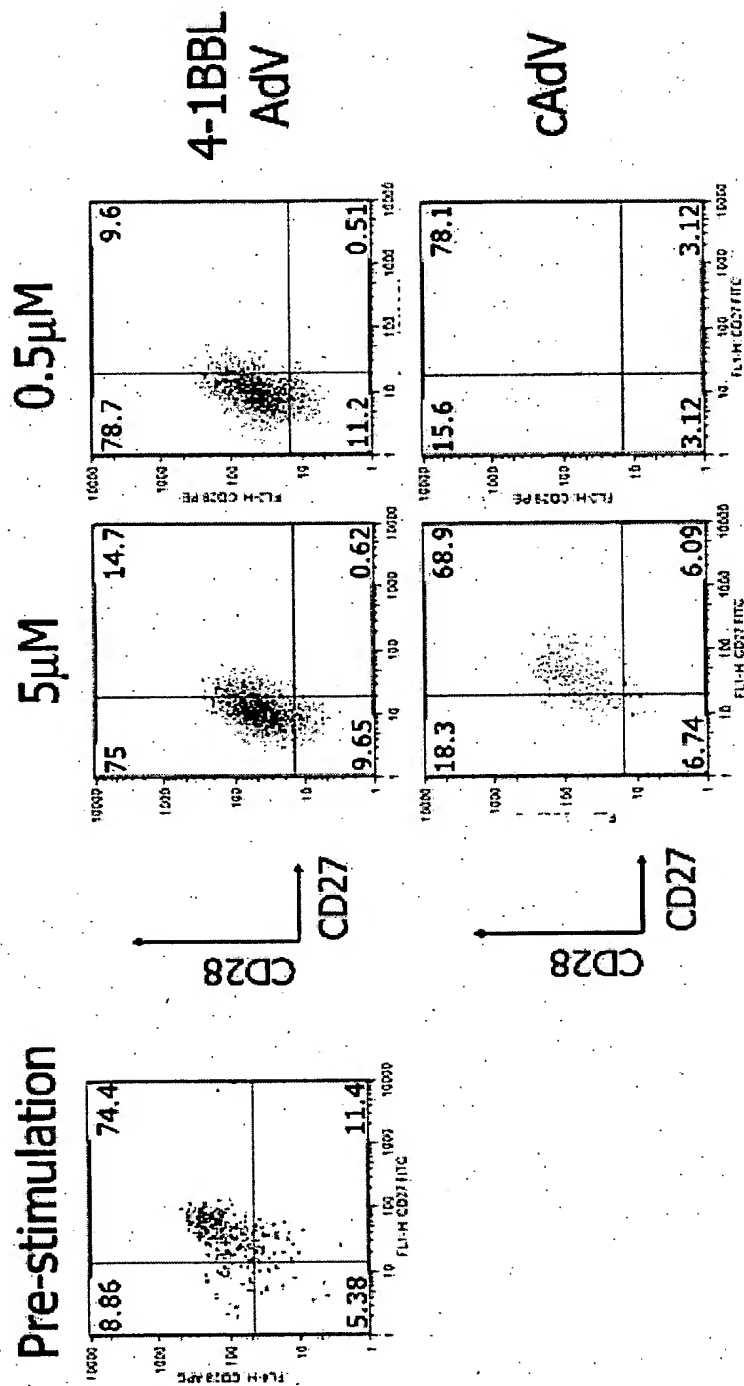


FIG. 34

+

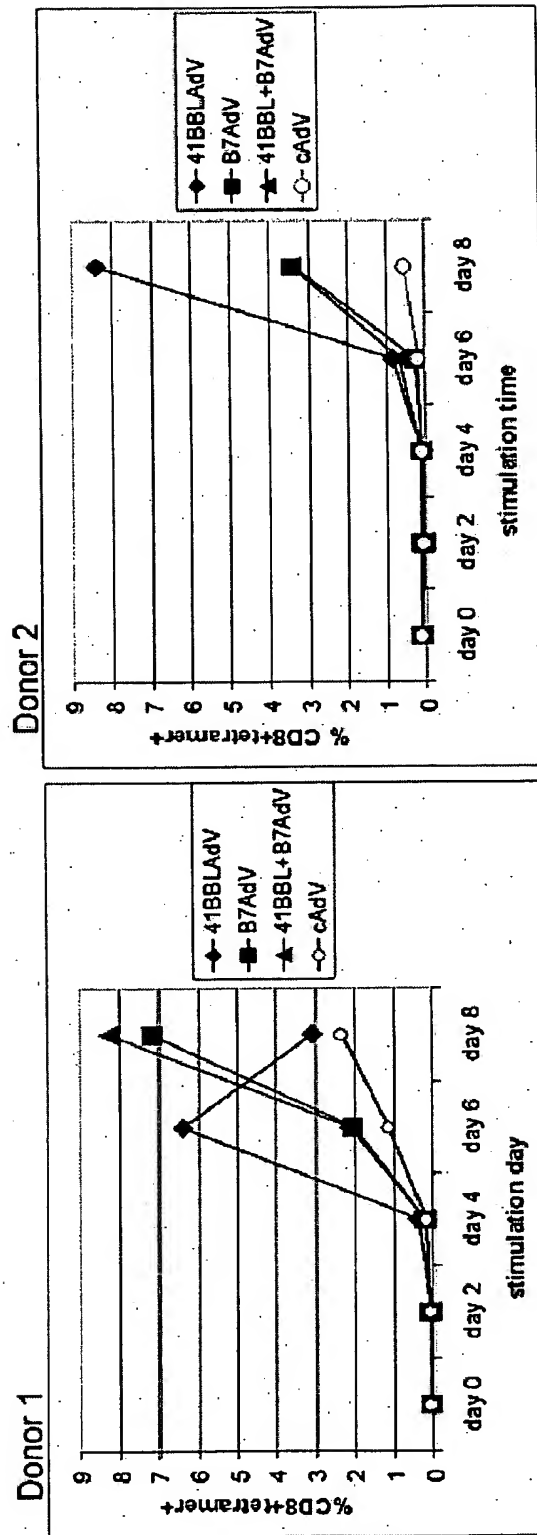


FIG. 35



**FIG. 36**



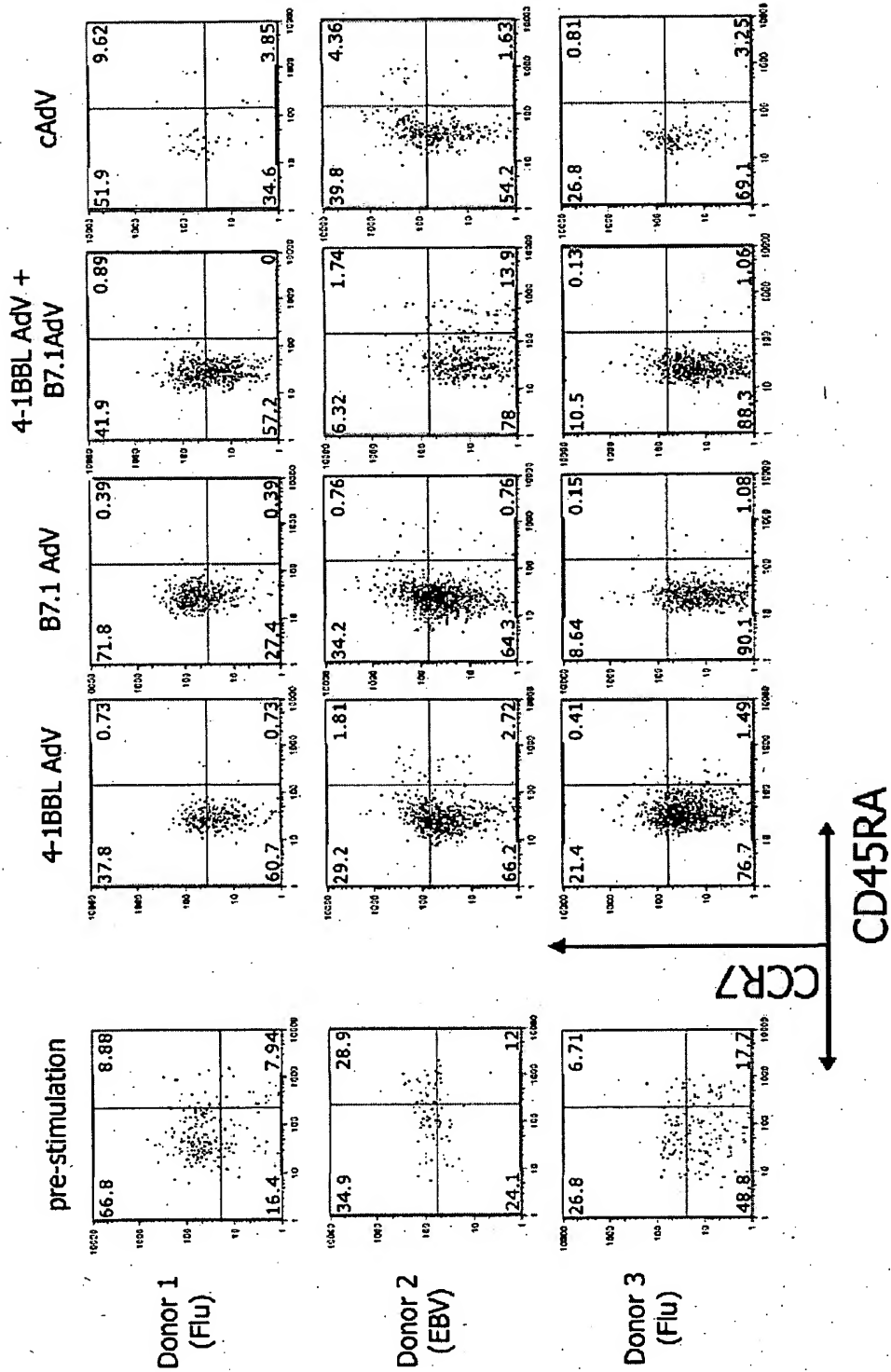


FIG. 37